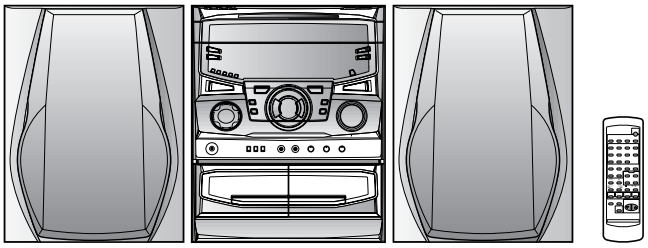
SHARP SERVICE MANUAL

No. S0959CDK1861V



CD-K1861V

CD-K1861V Video CD Mini System consisting of CD-K1861V (main unit) and CP-C861(speaker system).

NTSC/PAL

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.8W

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

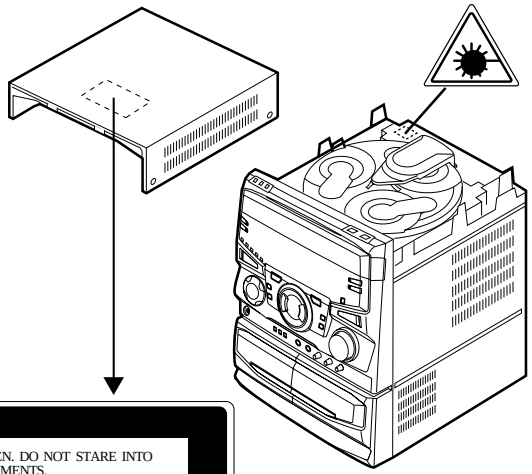
CAUTION

CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

- This Video CD Mini System is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.

ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

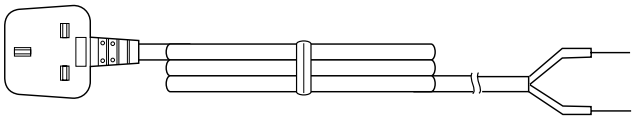
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

VOLTAGE SELECTION

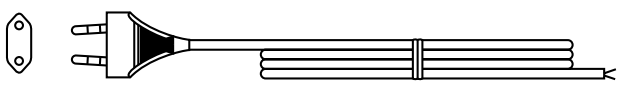
The voltage selector is located on the AC voltage selector box. If adjustment is necessary, use a screwdriver in order to turn the selector in either direction unitil the correct voltage figure is displayed in the window next the adjustment screw.

QACCA0001AW00

QACCB0009AW00



QACCE0012AW00



92LPLUG027

92LPLUG155A

Figure 2 AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-K1861V

● General

Power source: AC 110/127/220/230-240 V, 50/60 Hz
Power consumption: 180 W
Dimensions: Width; 270 mm (10-5/8")
Height; 330 mm (13")
Depth; 358 mm (14-1/8")
Weight: 10.5 kg (23.1 lbs.)

● Amplifier section

Output power: MPO; 440 W (220 W + 220 W) (10 % T.H.D.)
RMS; 300 W (150 W + 150 W) (10 % T.H.D.)
Output terminals: Speakers; 6 ohms
Headphones; 16-50 ohms (recommended; 32 ohms)
Video out; 1 Vp-p(75 ohms)
Input terminals: Video/Auxiliary (audio signal); 500 mV/47 kohms

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semi-conductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

● Video CD section

Video output format: PAL / PAL60 / NTSC

● Tuner section

Frequency range: FM; 88 - 108 MHz
AM; 531 - 1,602 kHz

● Cassette deck section

Frequency range: 50-14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter: 0.15 % (WRMS)

CP-C861

● Speaker section

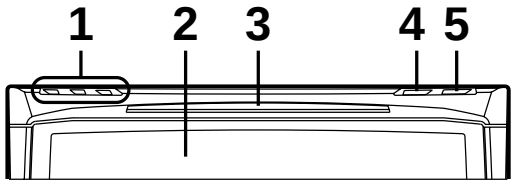
Type: 3-way type [20 cm (7-7/8") woofer, 8 cm (3-1/8") tweeter and super tweeter]
Maximum input power: 300 W
Rated input power: 150 W
Impedance: 6 ohms
Dimensions: Width; 250 mm (9-13/16")
Height; 330 mm (13")
Depth; 335 mm (13-1/4")
Weight: 6.1 kg (13.4 lbs.)/each

Specifications for this model are subject to change without prior notice.

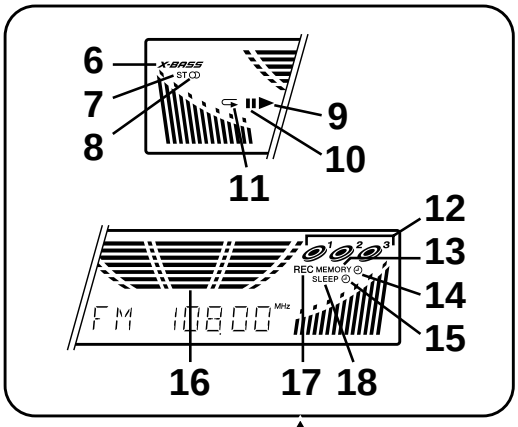
NAMES OF PARTS

CD-K1861V

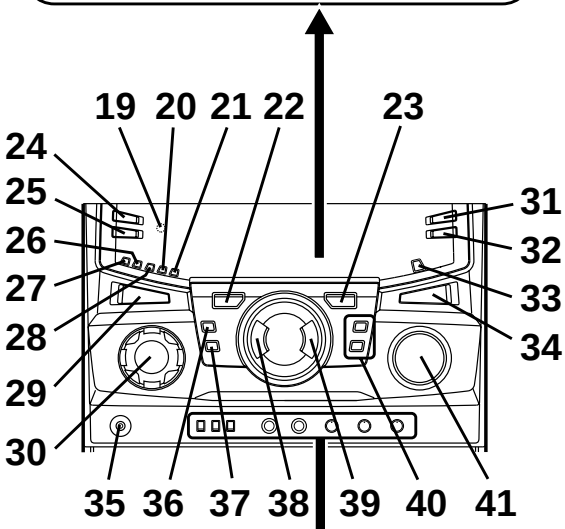
■ Front panel



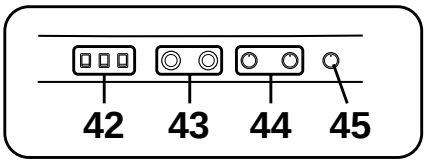
1. Disc Number Selector Buttons
2. Disc Tray
3. Multi Indicator
4. Disc Skip Button
5. Open/Close Button

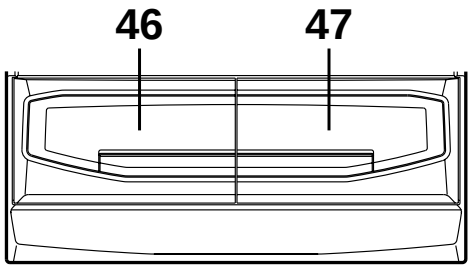


6. Extra Bass Indicator
7. FM Stereo Mode Indicator
8. FM Stereo Indicator
9. (VCD/CD) Play Indicator
10. (VCD/CD) Pause Indicator
11. (VCD/CD) Repeat Indicator
12. (VCD/CD) Disc Number Indicators
13. (VCD/CD/TUNER) Memory Indicator
14. Timer Play Indicator
15. Timer Record Indicator
16. Spectrum Analyzer/Volume Level Indicator
17. (TAPE 2) Record Indicator
18. Sleep Indicator



19. Timer Set Indicator
20. (VCD) Digest Button
21. (VCD) Book Mark Button
22. (VCD) Skip/Previous Button
    (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
23. (VCD) Skip/Next Button
    (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
24. Timer/Sleep Button
25. Clock Button
26. (VCD) Playback Control Auto/Off Button
27. (VCD/CD) Karaoke/Audio Mode Button
28. (VCD) On Screen Display On/Off Button
29. On/Stand-by Button
30. Function Selector Button
31. Equalizer Mode Selector Button
32. Dimmer Button
33. Surround Button
34. Extra Bass/Demo Mode Button
35. Headphone Socket
36. (TAPE 2) Record Pause Button
37. Memory/Set Button
38. (VCD) Stop/Return Button
    (CD/TAPE) Stop Button
39. (VCD) Play/Repeat/Select/Resume Button
    (CD) Play/Repeat Button
    (TAPE) Play Button
40. Tuning and Time Up/Down Buttons
41. Volume Control
42. Key Control Buttons
43. Microphone Sockets
44. Microphone Level Controls
45. Digital Echo Control

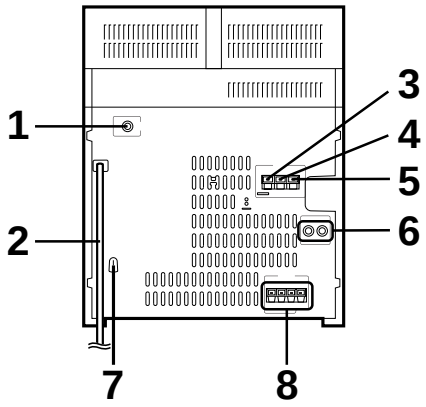




46. (TAPE 1) Cassette Compartment
47. (TAPE 2) Cassette Compartment

■ Rear panel

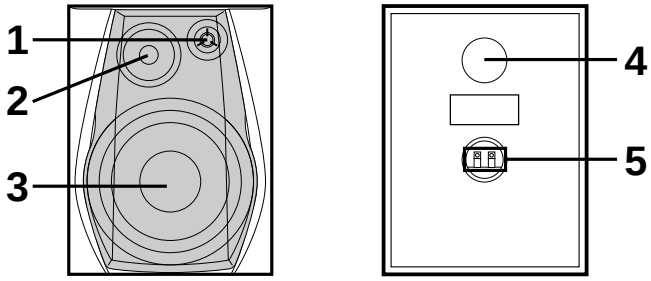
1. Video Output Socket
2. AC Power Lead
3. AM Aerial Terminal
4. Aerial Earth Terminal
5. FM 75 Ohms Aerial Terminal
6. Video/Auxiliary (Audio Signal) Input Sockets
7. AC Voltage Selector
8. Speaker Terminals



CP-C861

■ Speaker

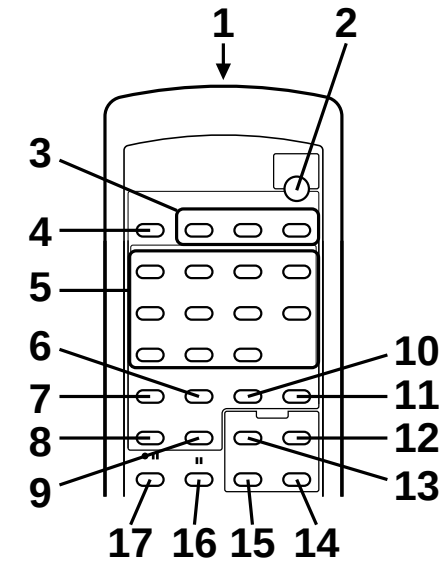
1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Ducts
5. Speaker Terminals

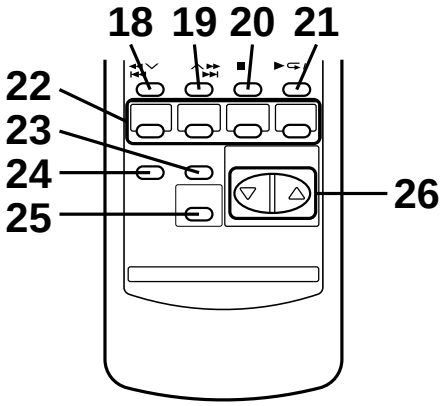


CD-K1861V

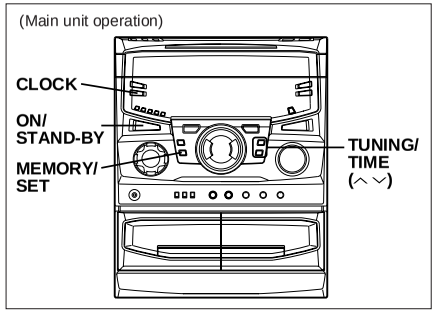
■ Remote control

1. Remote Control Transmitter LED
2. On/Stand-by Button
3. Key Control Buttons
4. (VCD/CD) Karaoke/Audio Mode Button
5. (VCD/CD) Direct Search Buttons
6. (VCD) On Screen Display On/Off Button
7. (VCD) PAL/NTSC Select Button
8. (VCD) Book Mark Button
9. (VCD) Digest/Time Search Button
10. (VCD) VCD Auto/On Button
11. (VCD) Playback Control Auto/Off Button
12. (VCD/CD) Clear Button
13. (VCD/CD) Memory Button
14. (VCD/CD) Disc Skip Button
15. (VCD/CD) Random Button
16. (VCD/CD) Pause Button
17. (TAPE 2) Record Pause Button
18. (VCD) Skip/Previous Button
    (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
19. (VCD) Skip/Next Button
    (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
20. (VCD) Stop/Return Button
    (CD/TAPE) Stop Button
21. (VCD) Play/Repeat/Select/Resume Button
    (CD) Play/Repeat Button
    (TAPE) Play Button
22. Function Selector Buttons
23. Extra Bass Button
24. Equalizer Mode Button
25. Surround Button
26. Volume Up/Down Buttons





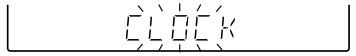
SETTING THE CLOCK



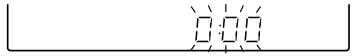
In this example, the clock is set for the 24-hour (0:00) system.

1 Press the ON/STAND-BY button to enter the stand-by mode.

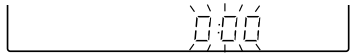
2 Press the CLOCK button.



3 Within 5 seconds, press the MEMORY/SET button.



4 Press the TUNING/TIME (∨ or ∧) button to select the time display mode.

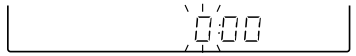


0:00 ⟷ AM 0:00 ⟷ AM 12:00

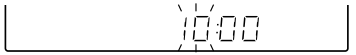
"0:00"→ The 24-hour display will appear. (0:00 - 23:59)
"AM 0:00"→ The 12-hour display will appear. (AM or PM 0:00 - 11:59)
"AM 12:00"→ The 12-hour display will appear. (AM or PM 12:00 - 11:59)

- Note that this can only be set when the unit is first installed or it has been reset .

5 Press the MEMORY/SET button.

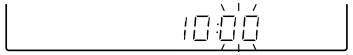


6 Press the TUNING/TIME (∨ or ∧) button to adjust the hour.

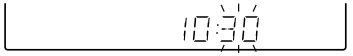


- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

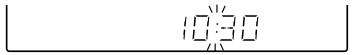


8 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes.



- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.



- The clock starts operating from "0" seconds. (Seconds are not displayed.) And then the clock display will disappear a few seconds.

To see the time display:
Press the CLOCK button.
- The time display will appear for about 5 seconds.

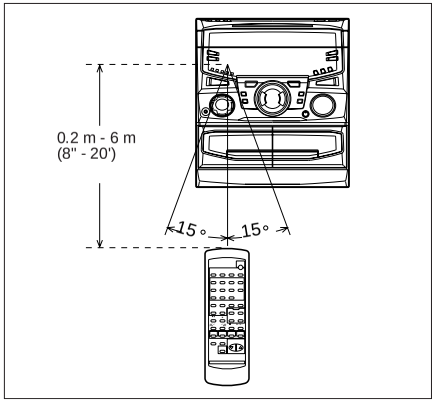
Note:
- The clock display will flash on and off at the push of the CLOCK button when the AC power supply is restored after a power failure occurs or after the AC power lead is disconnected. If this happens, follow the procedure below to change the clock time.

To change the clock time:
① Press the CLOCK button.
② Within 5 seconds, press the MEMORY/SET button.
③ Perform steps 6 - 9 above.

To change the time display mode:
① Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER".
② Perform steps 1 - 9 above.

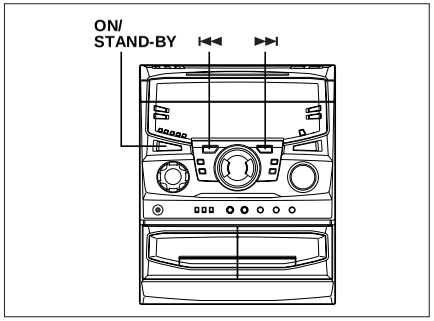
PREPARATION FOR USE

■Remote control



Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:
- To erase all of the stored memory contents (clock and timer settings, and tuner, video CD and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the ⏮ button and the ⏭ button, hold down the ON/STAND-BY button for at least 1 second.

Caution:
- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner, video CD and CD presets.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-K1861V

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	7-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x8	7-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x5	7-2
4	Rear Panel (with Digital Output PWB)	1. Screw ..... (D1) x9	7-2, 8-1
5	Main PWB/ Tuner PWB	1. Screw ..... (E1) x1 2. Socket ..... (E2) x4 3. Flat Cable ..... (E3) x1 4. Tip ..... (E4) x1	8-1
6	Front Panel	1. Screw ..... (F1) x3 2. Socket ..... (F2) x1	8-1
7	Power Amp. PWB	1. Screw ..... (G1) x7 2. Socket ..... (G2) x2 3. PWB Holder ..... (G3) x1	8-2
8	Power Supply PWB	1. Screw ..... (H1) x4	8-2
9	Karaoke PWB	1. Screw ..... (J1) x2 2. Tip ..... (J2) x1	8-3
10	Display PWB/ Switch PWB	1. Screw ..... (K1) x13 2. Socket ..... (K2) x1 3. Hook ..... (K3) x2 4. Buttom ..... (K4) x1	8-3
11	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (L1) x6	8-3
12	Turntable	1. Screw ..... (M1) x1 2. Cover ..... (M2) x1	8-4
13	Disc Tray	1. Screw ..... (N1) x2 2. Guide ..... (N2) x2	8-4
14	CD Video PWB (Note 2)	1. Screw ..... (P1) x2 2. Socket ..... (P2) x4	8-5
15	CD Changer Mechanism	1. Screw ..... (Q1) x4	8-6
16	CD Mechanism	1. Screw ..... (R1) x1	8-6

CD-K1861V

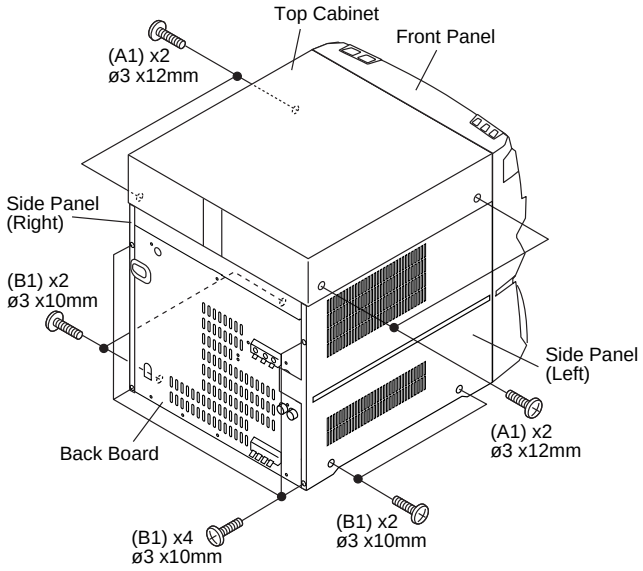


Figure 7-1

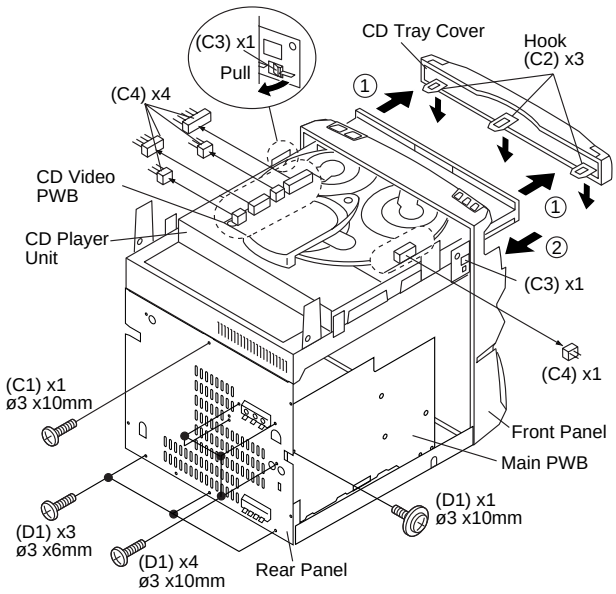


Figure 7-2

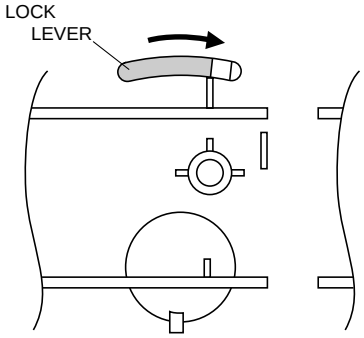


Figure 7-3

Note 1:

How to open the changer manually. (Fig. 7-3)

1. Change, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pickup from electrostatic damage.

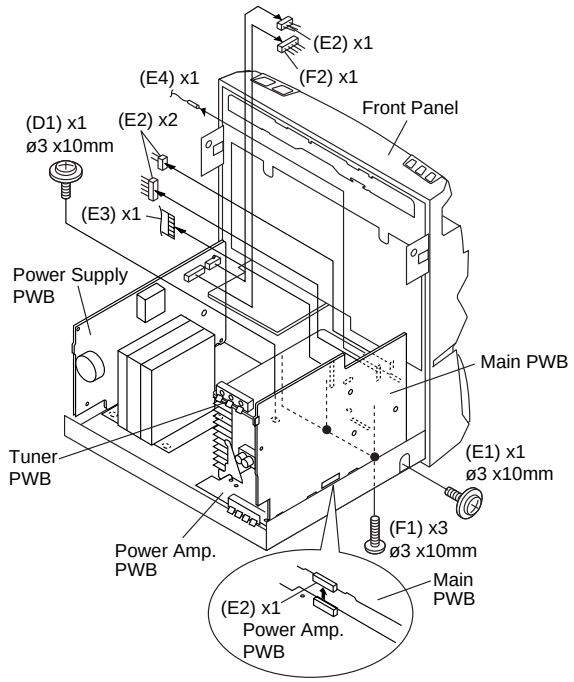


Figure 8-1

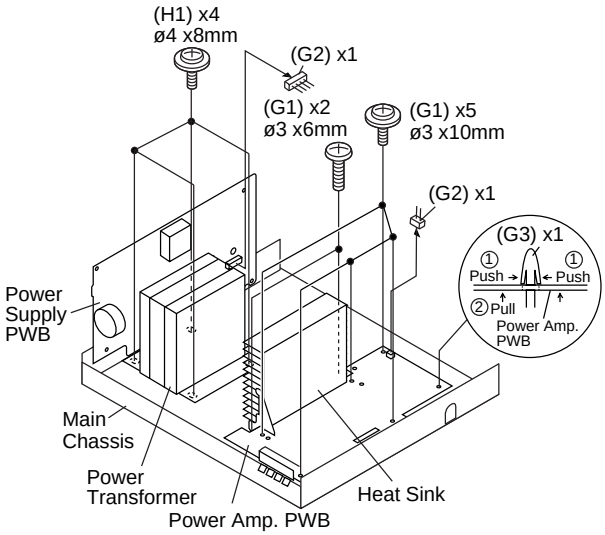


Figure 8-2

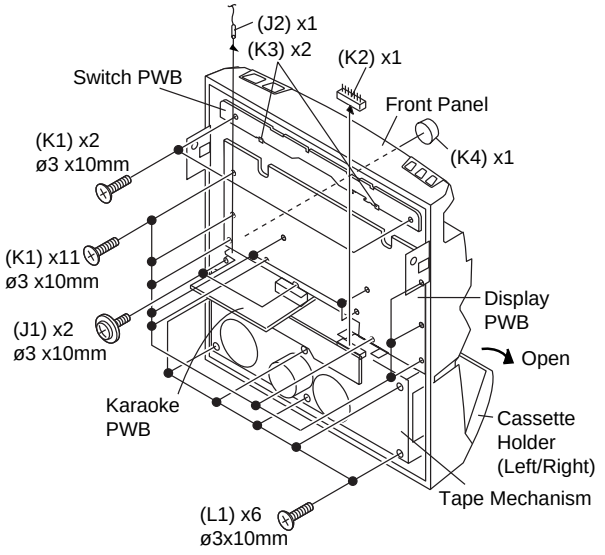


Figure 8-3

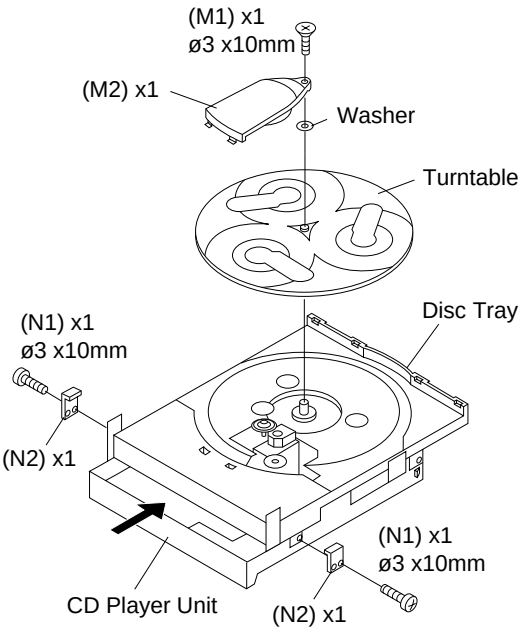


Figure 8-4

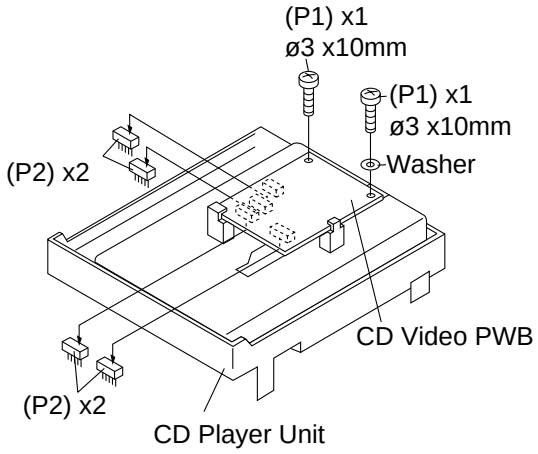
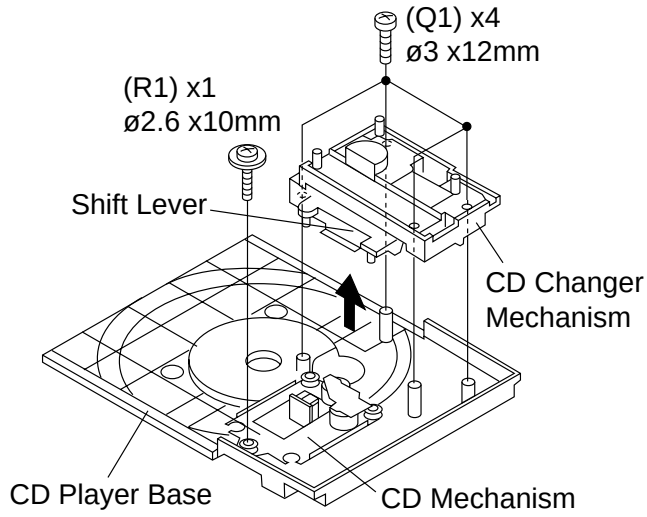


Figure 8-5



Be careful when installing the CD changer mechanism. Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 8-6

CP-C861			
STEP	**REMOVAL**	**PROCEDURE**	**FIGURE**
1	Front Panel	1. Net ..... (A1) x1 2. Rubber ..... (A2) x4 3. Screw ..... (A3) x4 4. Tip ..... (A4) x4	9-1 9-2
2	Woofer	1. Screw ..... (B1) x4	9-2
3	Tweeter	1. Screw ..... (C1) x4	9-2
4	Super Tweeter	1. Screw ..... (D1) x2	9-2

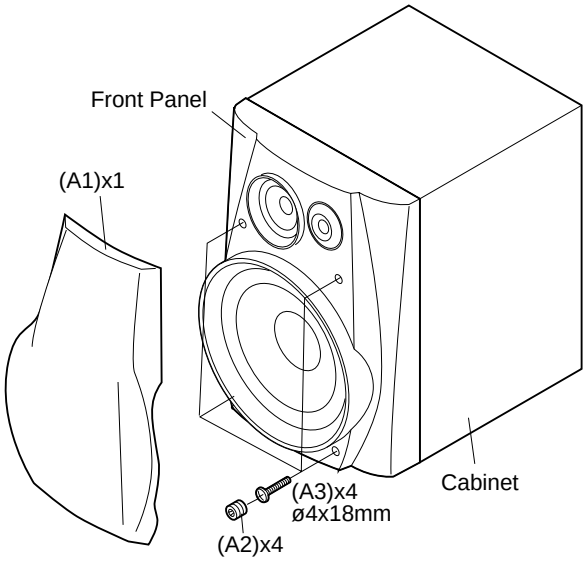


Figure 9-1

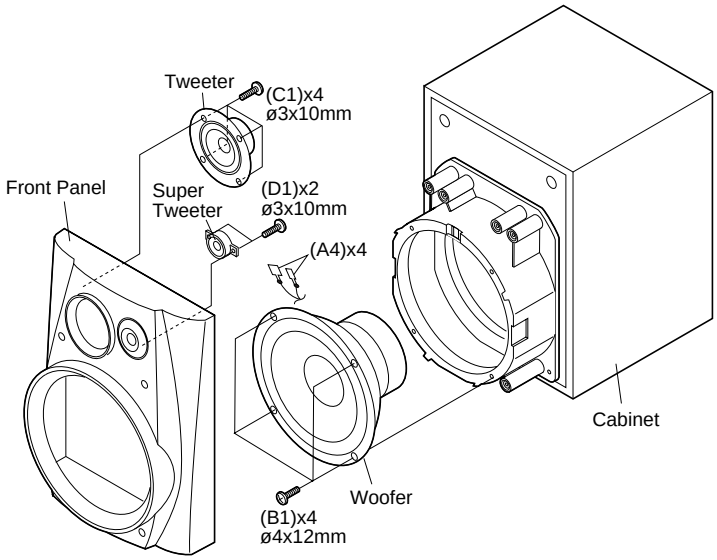


Figure 9-2

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3, 12, 13, 14, 15 and 16 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 9-3)

1. Remove the screws (A1) x 2 pcs., to remove the loading motor.

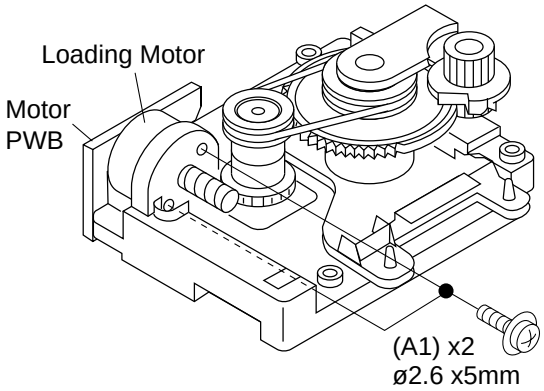


Figure 9-3

How to remove the pickup (See Fig. 9-4)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of connector to protect the optical pickup from electrostatic damage.

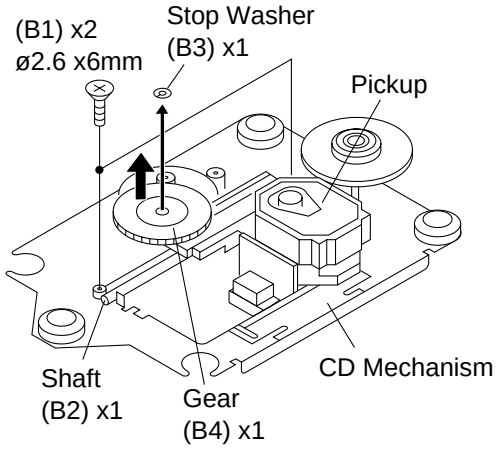


Figure 9-4

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 60 g.cm
Fast forward: TW-2231	—	60 to 120 g.cm
Rewind: TW-2231	—	60 to 120 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable resistor in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fH): T302	*1

*1. Input: Antenna, Output: TP302
*2. Input: Antenna, Output: TP301

• FM

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually

• FM Mute Level

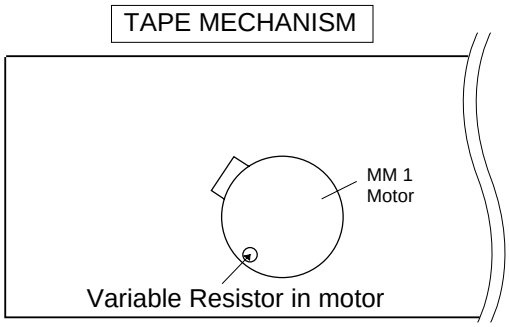
Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (25 dBμV)	98.00 MHz	VR351	Input: Antenna Output: Speaker Terminal

CD ERROR CODE DESCRIPTION

When a malfunction occurs during CD operation, an error code will be displayed to identify the function in CD operation which failed.

Error	State Code
0001	Cannot detect pickup in SW
0101	Tray close operation error
0105	Tray close operation error
0201	Tray open operation error
0203	Tray open operation error
0304	Disc skip operation error
0305	Disc skip operation error
0307	Disc skip operation error



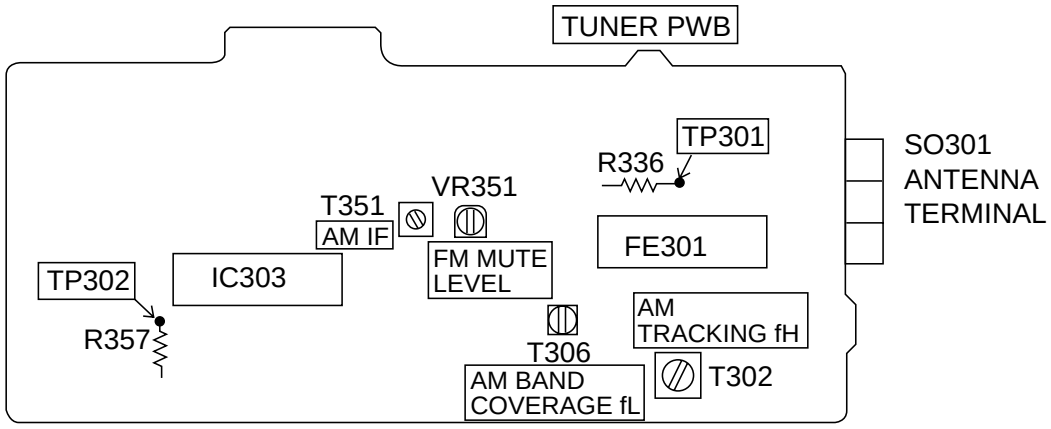


Figure 10 ADJUSTMENT POINTS

TEST MODE

• Setting the test mode

Any one of test mode can be set by pressing several keys as follows.
<REC. PAUSE> + <DISC. SKIP> + <POWER> TEST: CD operation test

• TEST mode

Function — CD test mode

Setting of TEST mode
Indication of CD TST mode (Fig. 11-1)
OPEN/CLOSE operation is manual operation.
The pickup can be moved by using the (▶▶) or (◀◀) key.
IL is not performed.

<MEMORY> LASER ON — <MEMORY> Tracking on the spot. SERVO OFF PLAY — <MEMORY> Tracking on the spot. SERVO ON PLAY — <STOP> STOP

<PLAY> key input — TOC. IL is performed, and the ordinary PLAY is performed. If the following key is pressed during PLAY, it is possible to specify directly any Track No.
<Disc Number 1> key: Track 4
<Disc Number 2> key: Track 9
<Disc Number 3> key: Track 15
— Press <STOP> key. — Stop

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.
VOL. --- Last memory
BAL. --- CENTER
R.GEQ. --- FLAT
X-BAS --- OFF

Canceling method - POWER OFF

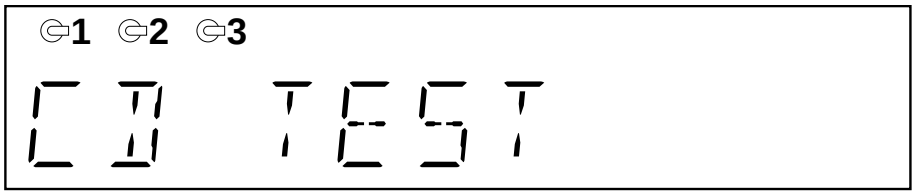


Figure 11-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.
Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 11-2)
2. Tracking offset (Fig. 11-3)
3. E/F balance (tracking error balance) (Fig. 11-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

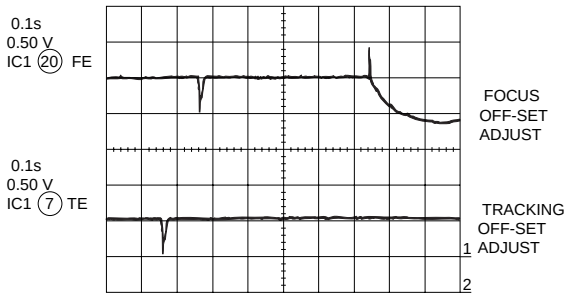


Figure 11-2

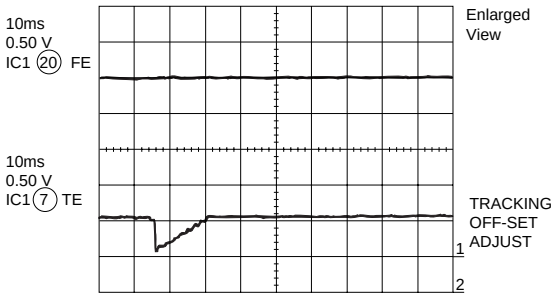


Figure 11-3

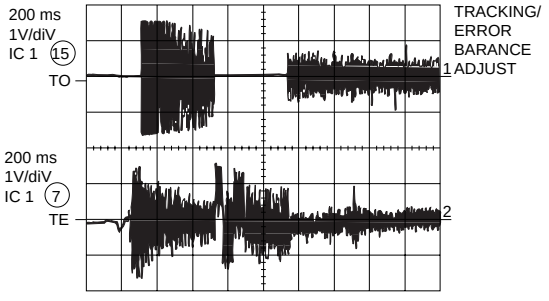


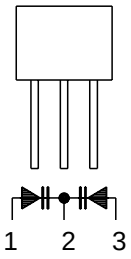
Figure 11-4

NOTES ON SCHEMATIC DIAGRAM

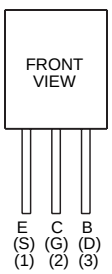
- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	ON/STAND-BY	ON—OFF
SW702	BOOK MARK	ON—OFF
SW703	CLOCK	ON—OFF
SW704	TIMER/SLEEP	ON—OFF
SW705	DISC 1	ON—OFF
SW706	DISC 2	ON—OFF
SW707	DISC 3	ON—OFF
SW708	DISC SKIP	ON—OFF
SW709	OPEN/CLOSE	ON—OFF
SW710	REWIND	ON—OFF
SW711	RECORD PAUSE	ON—OFF
SW712	MEMORY/SET	ON—OFF
SW713	STOP	ON—OFF
SW714	TUNER (BAND)	ON—OFF
SW715	VIDEO/AUX	ON—OFF
SW716	TAPE	ON—OFF

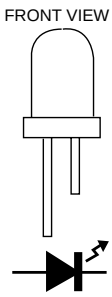
REF. NO	DESCRIPTION	POSITION
SW717	CD	ON—OFF
SW718	AUDIO MODE	ON—OFF
SW719	PLAYBACK CONTROL	ON—OFF
SW720	ON SCREEN DISPLAY	ON—OFF
SW721	DIGEST	ON—OFF
SW722	FAST FORWARD	ON—OFF
SW723	TUNING UP	ON—OFF
SW724	TUNING DOWN	ON—OFF
SW725	PLAY	ON—OFF
SW728	X-BASS/DEMO	ON—OFF
SW729	EQUALIZER	ON—OFF
SW730	DIMMER	ON—OFF
SW731	SURROUND	ON—OFF
SW736	KEY CONTROL,A	ON—OFF
SW736	KEY CONTROL,B	ON—OFF
SW736	KEY CONTROL,C	ON—OFF
SW801	VOLTAGE SELECTOR	110—127—220—230/240
SWM 3	FOOL PROOF	ON—OFF
SWM 4	F.A.S.	ON—OFF
SWM 5	CAM	ON—OFF



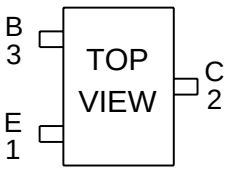
SVC348S



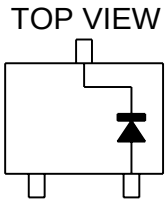
2SA1015 GR
2SA1318
2SC2389 SS
2SK246 GR
KRA107 M
KRC102 M
KRC104 M
KRC107 M
KTA1266 GR
KTA1271 Y
KTA1273 Y
KTA1274 Y
KTD2058
KTC3199 GR
KTC3203 Y



L1154GT4
4204SRT7
SLI325YC
SLI342DCB
SLI342UCB
SLI342YC
SLI342YCB
SLI342YCE
SLI342YCJ



KRC102 S
KRC104 S
KTA1298 Y
KTA1504 GR
KTC3265 Y
KTC3876 Y



KDS193
Z02W5.6Y

Figure 12 TYPES OF TRANSISTOR AND LED

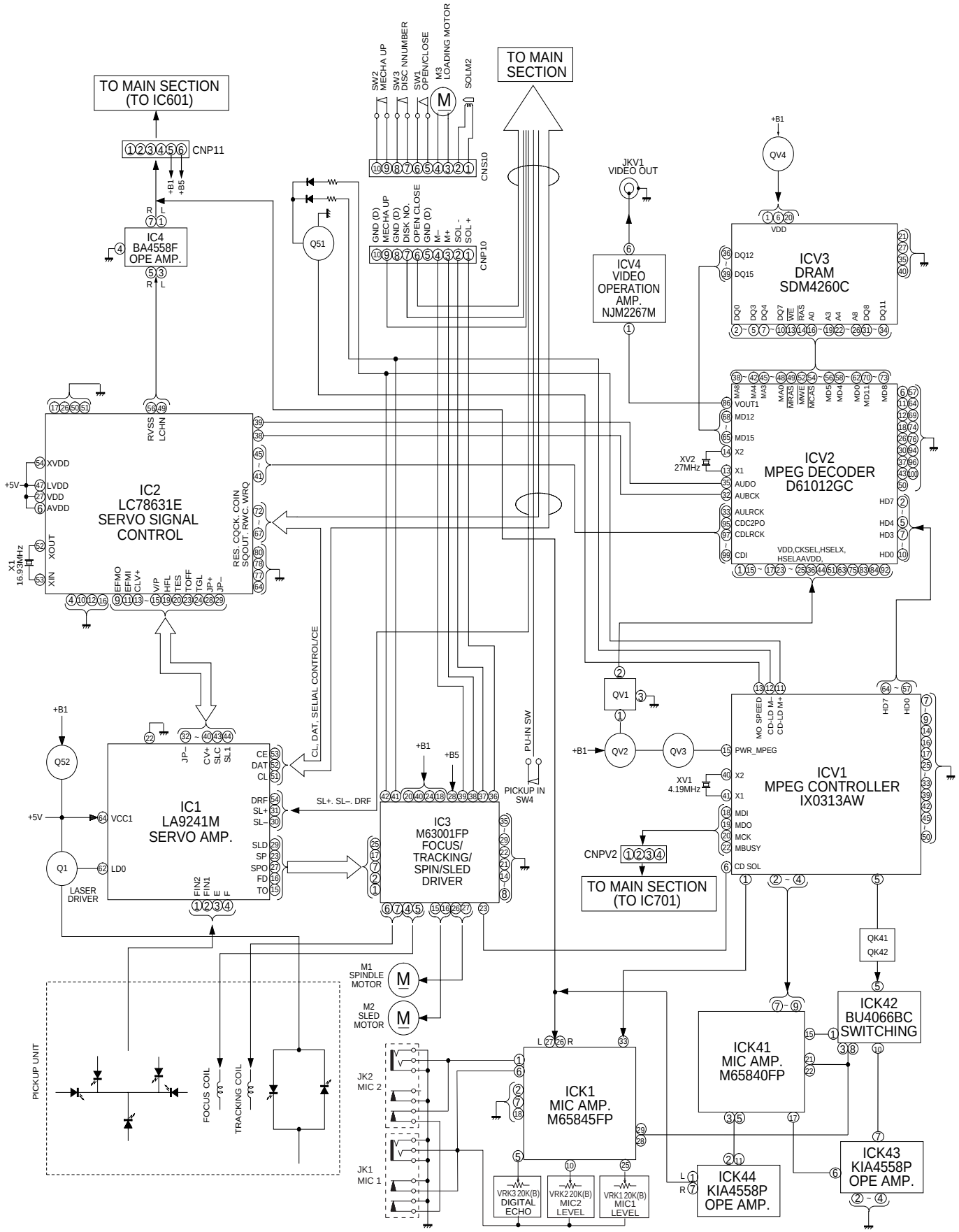


Figure 13 BLOCK DIAGRAM (1/3)

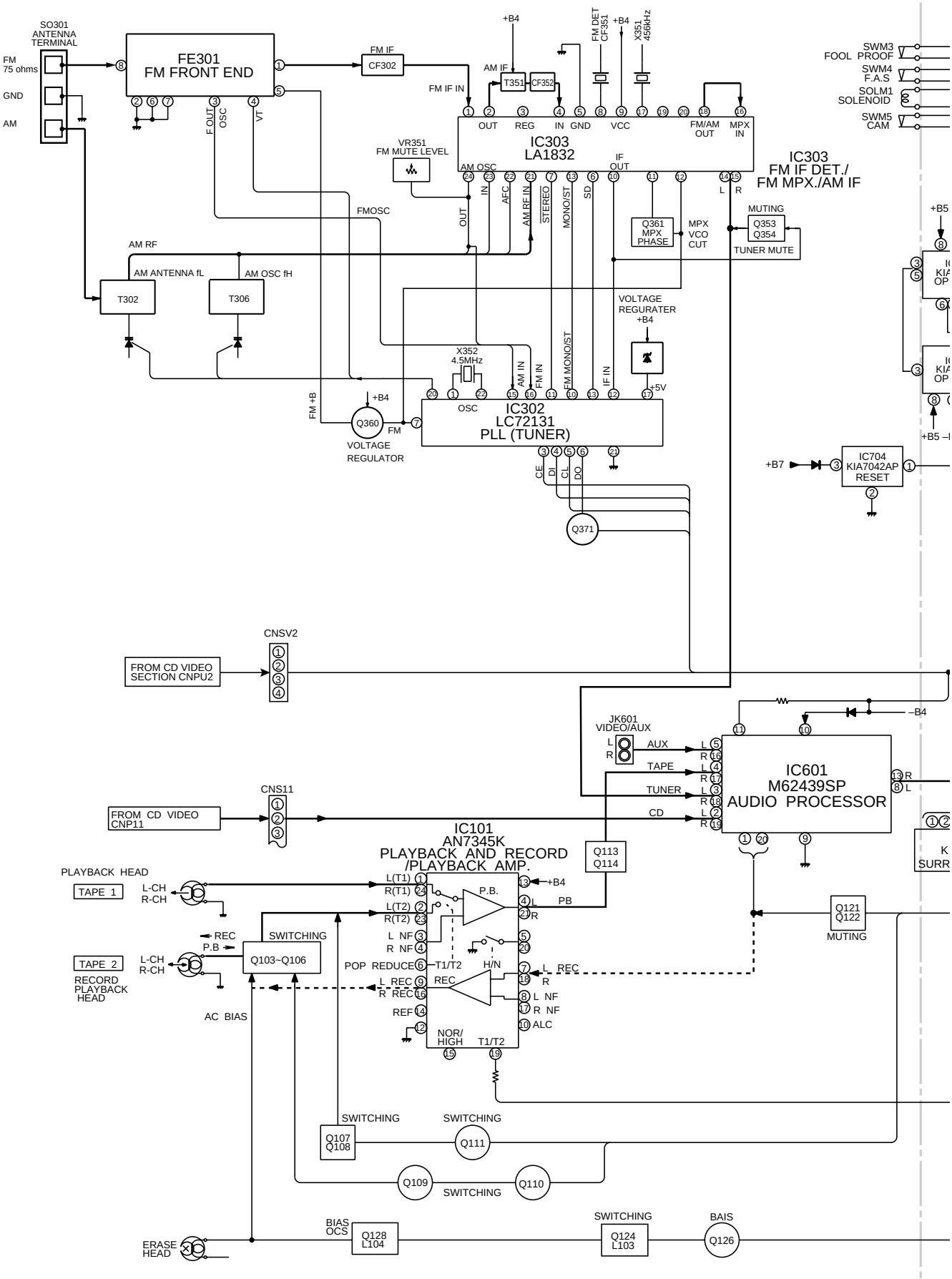


Figure 14 BLOCK DIAGRAM (2/3)

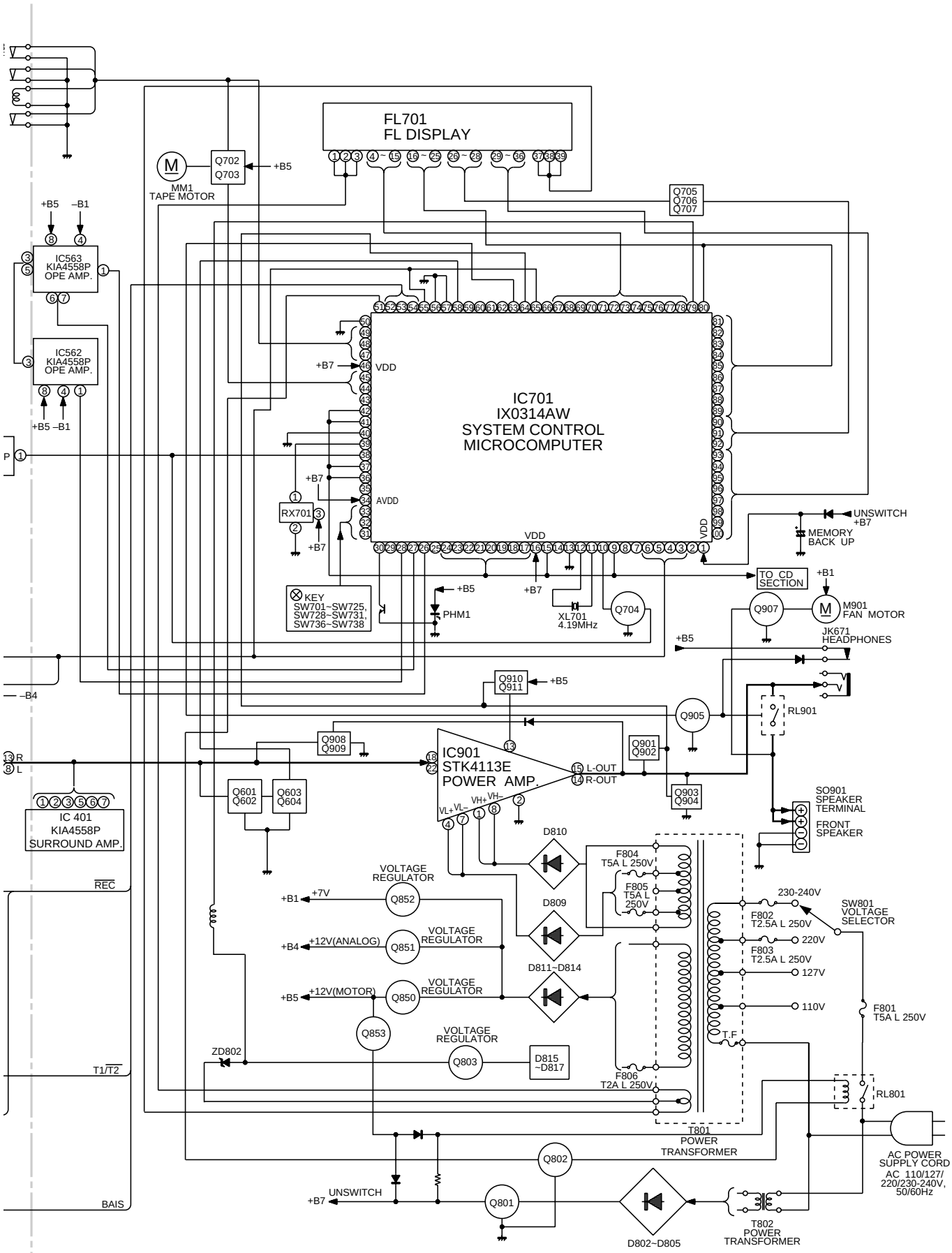
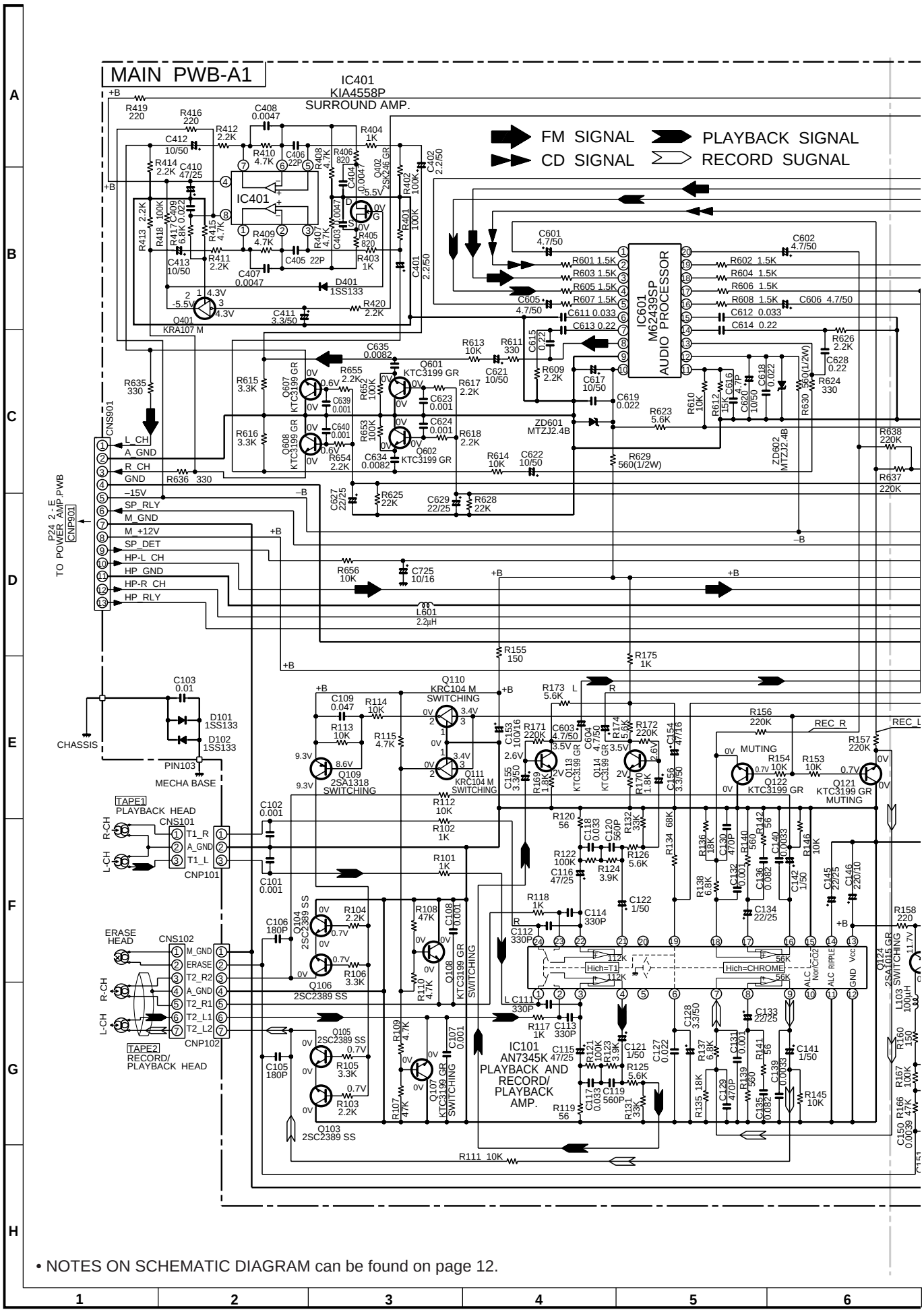
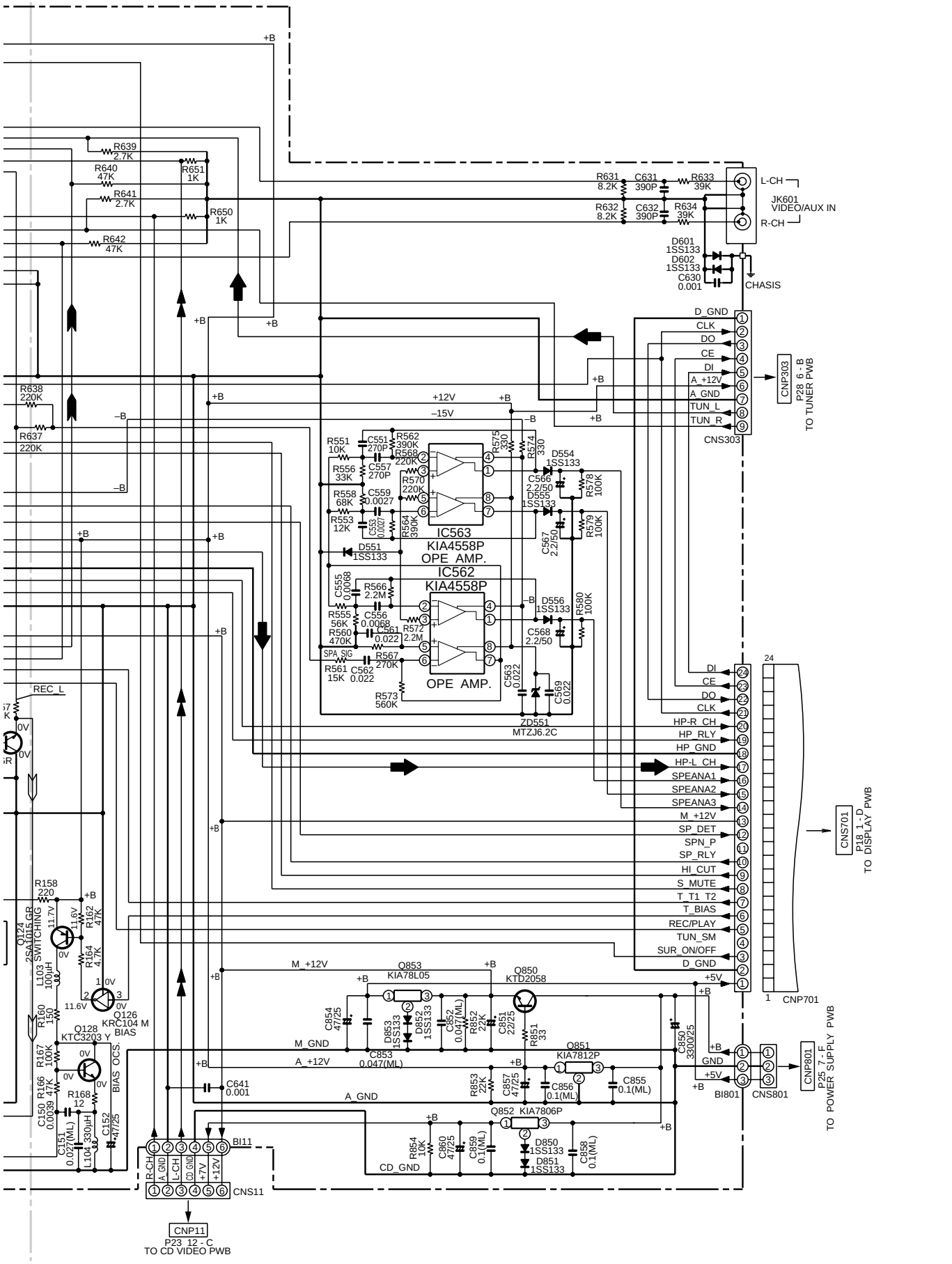


Figure 15 BLOCK DIAGRAM (3/3)



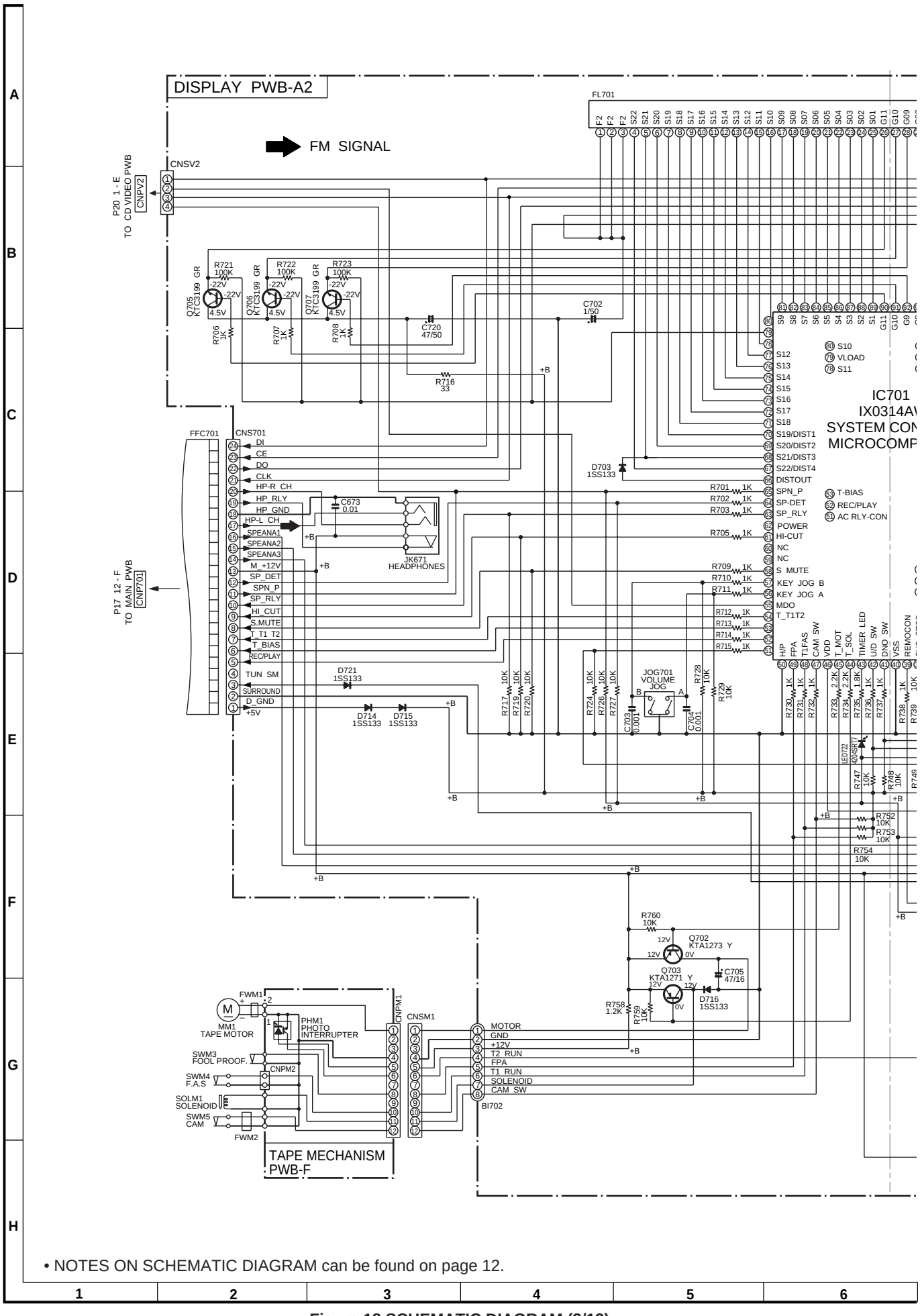
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 16 SCHEMATIC DIAGRAM (1/13)



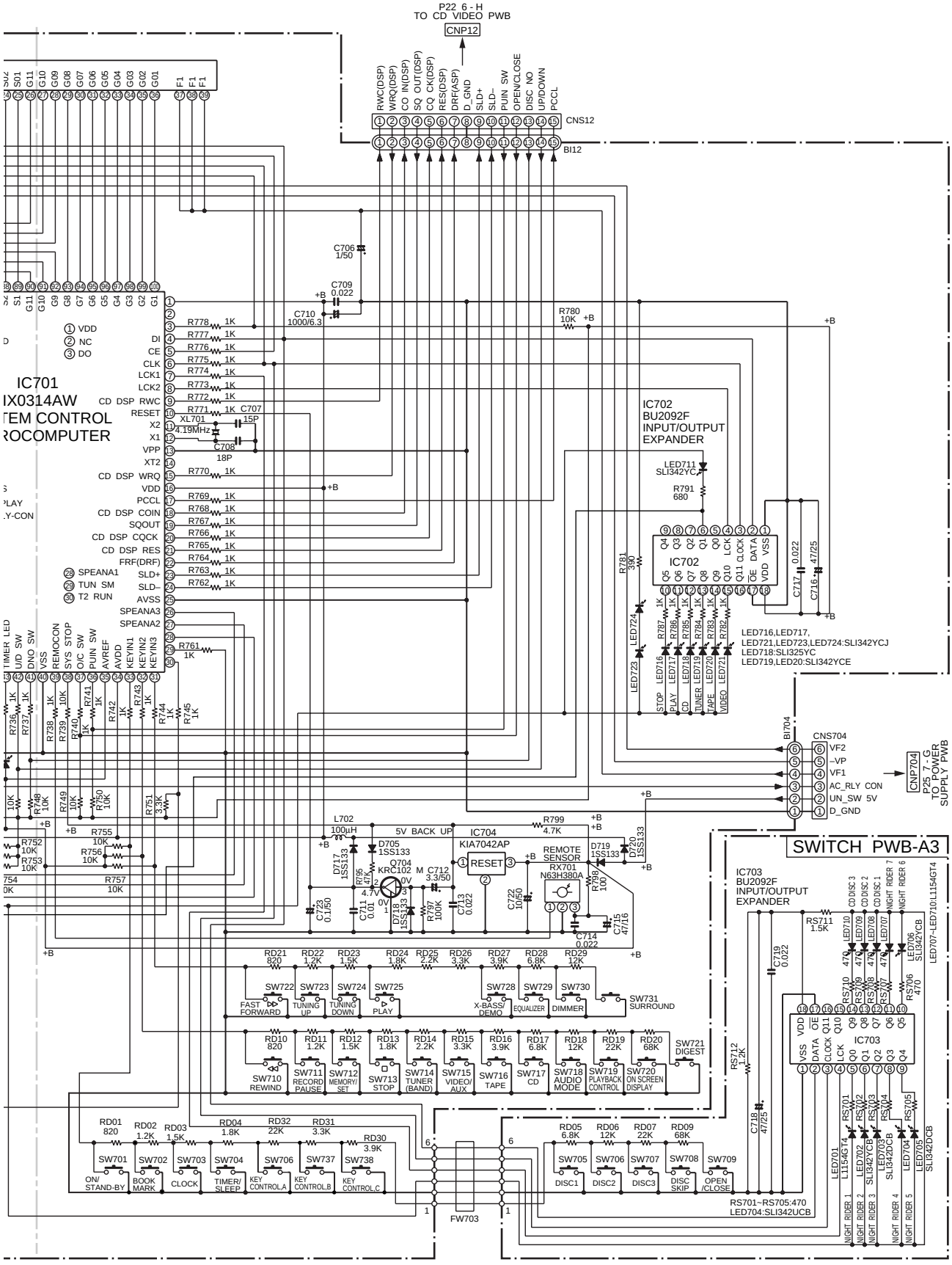
7	8	9	10	11	12

Figure 17 SCHEMATIC DIAGRAM (2/13)



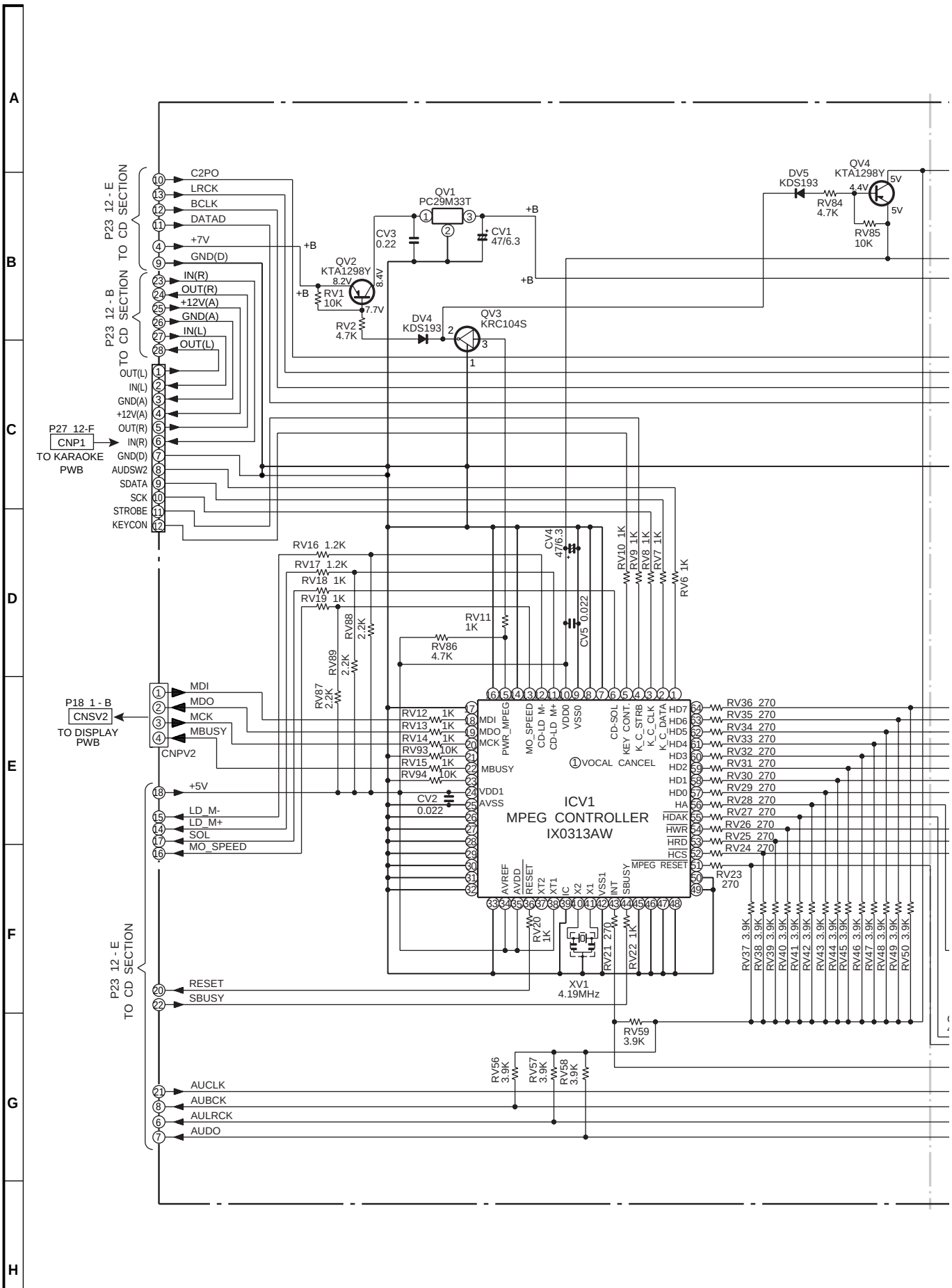
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 18 SCHEMATIC DIAGRAM (3/13)



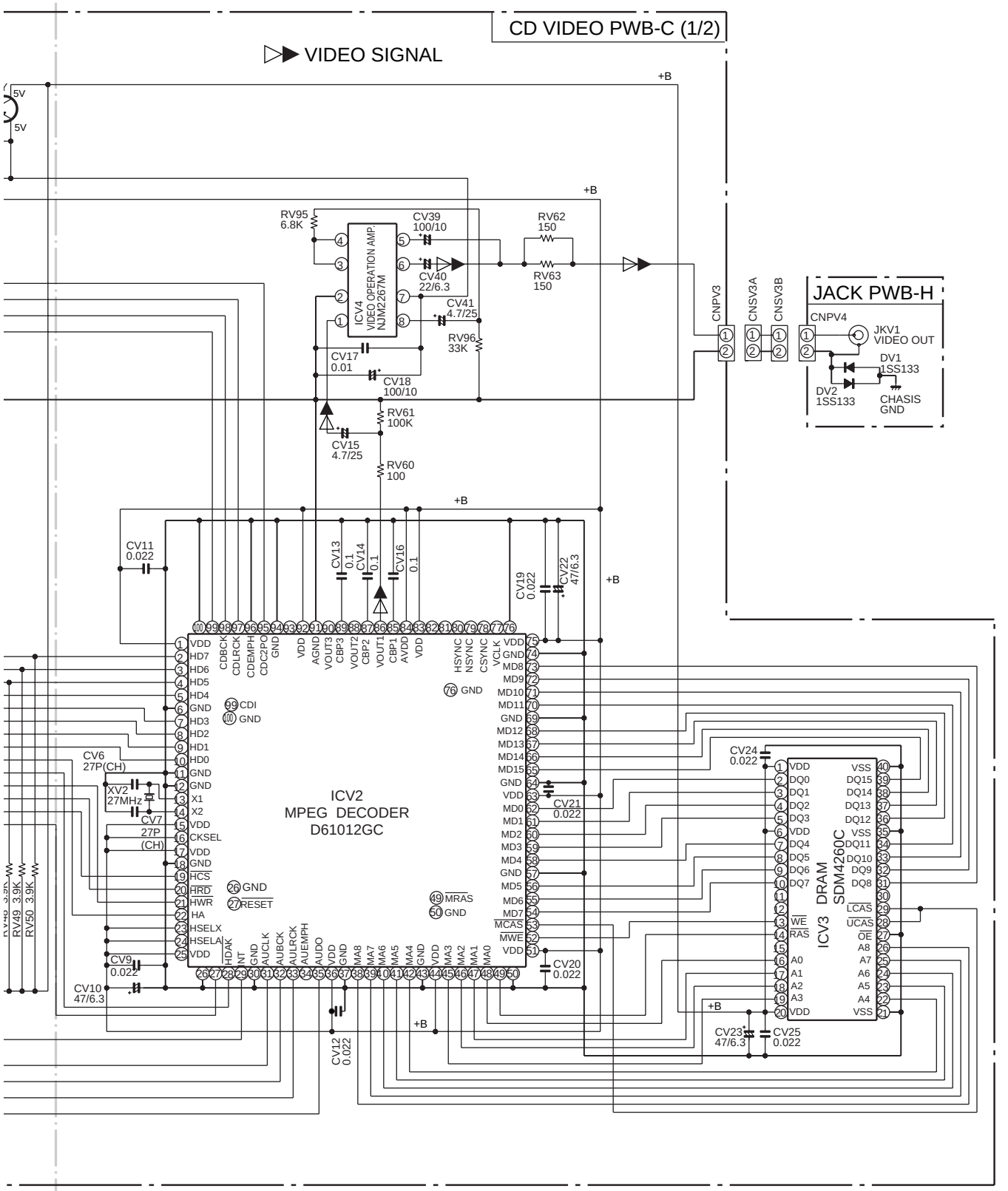
7	8	9	10	11	12

Figure 19 SCHEMATIC DIAGRAM (4/13)



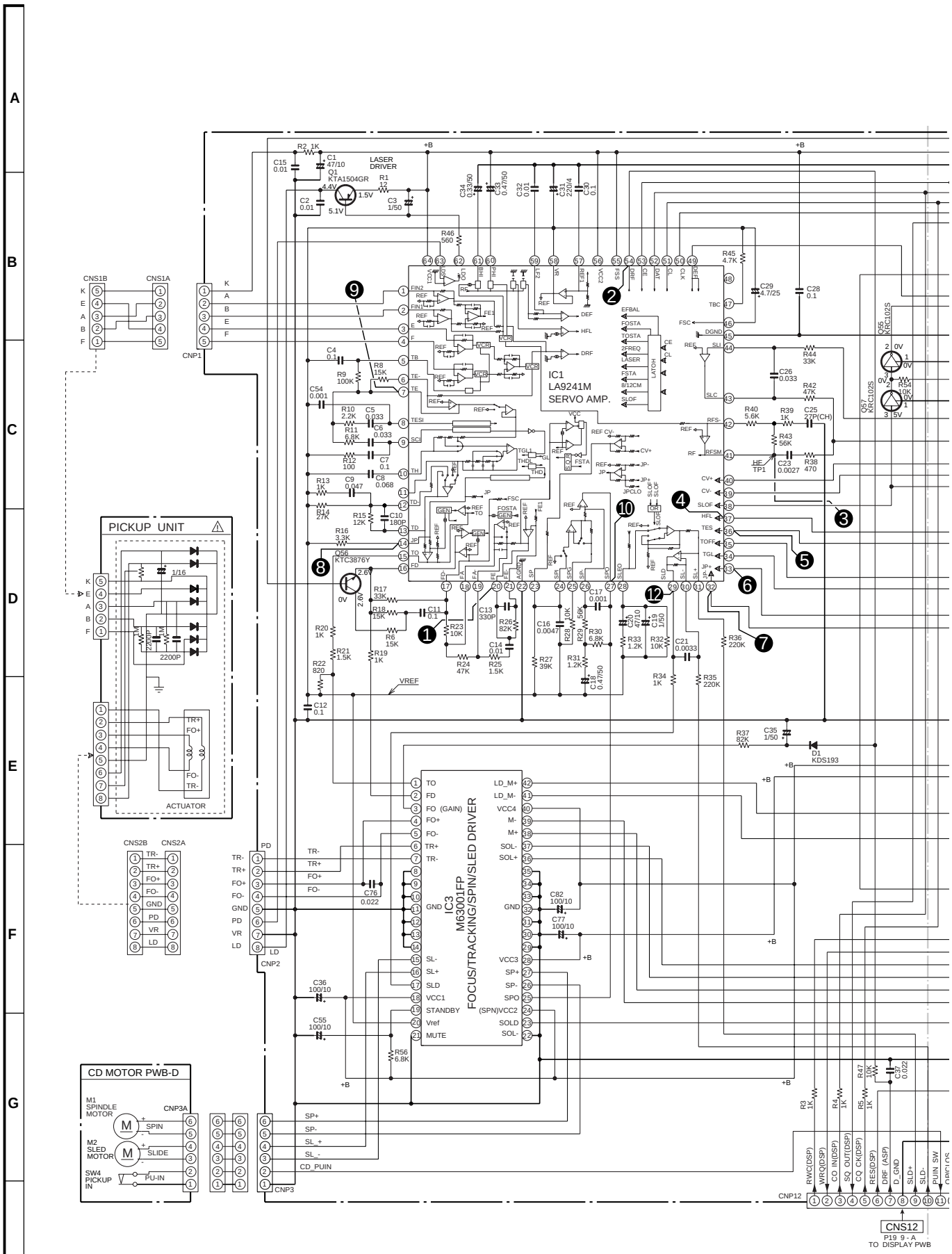
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 20 SCHEMATIC DIAGRAM (5/13)



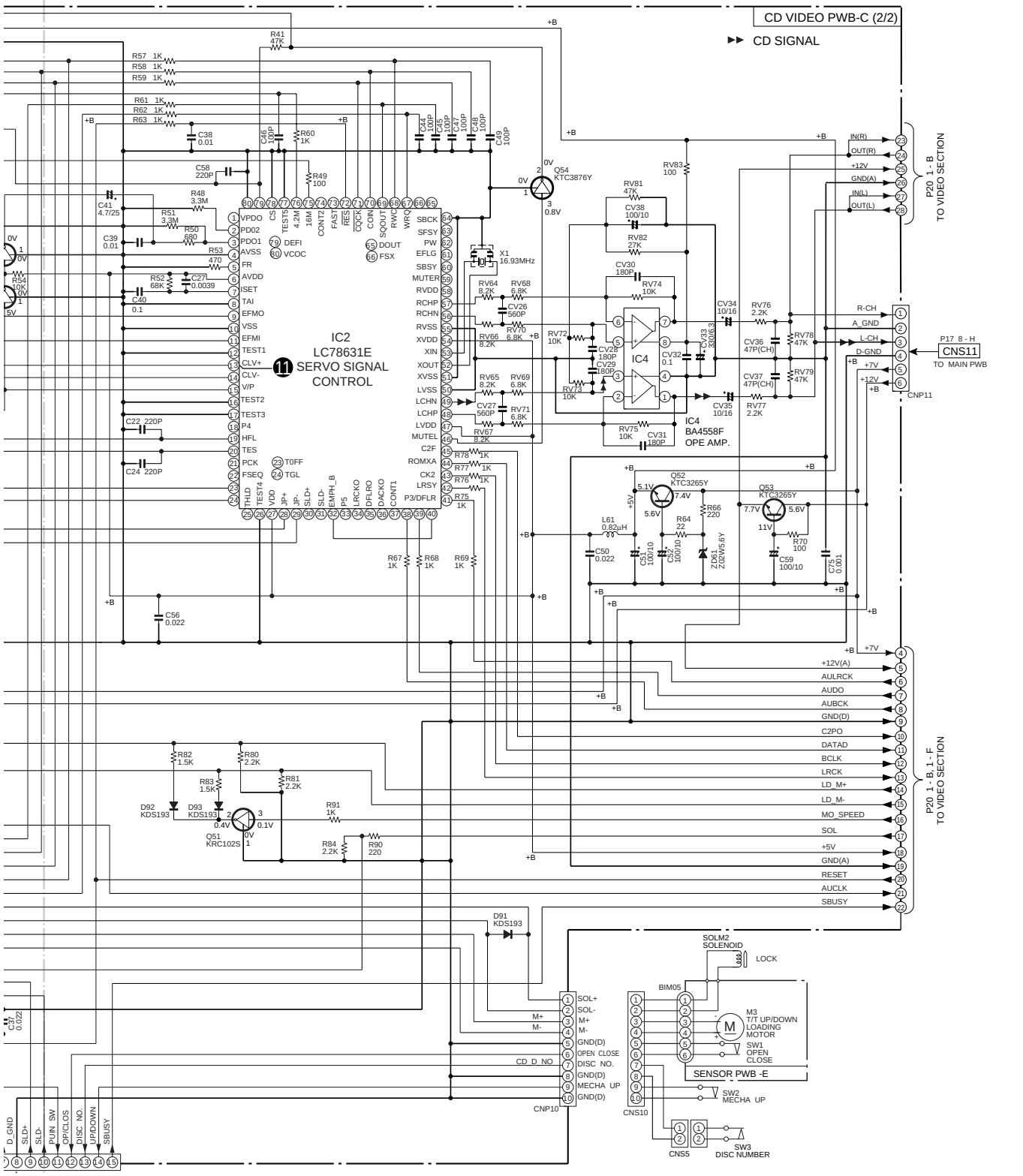
7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (6/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

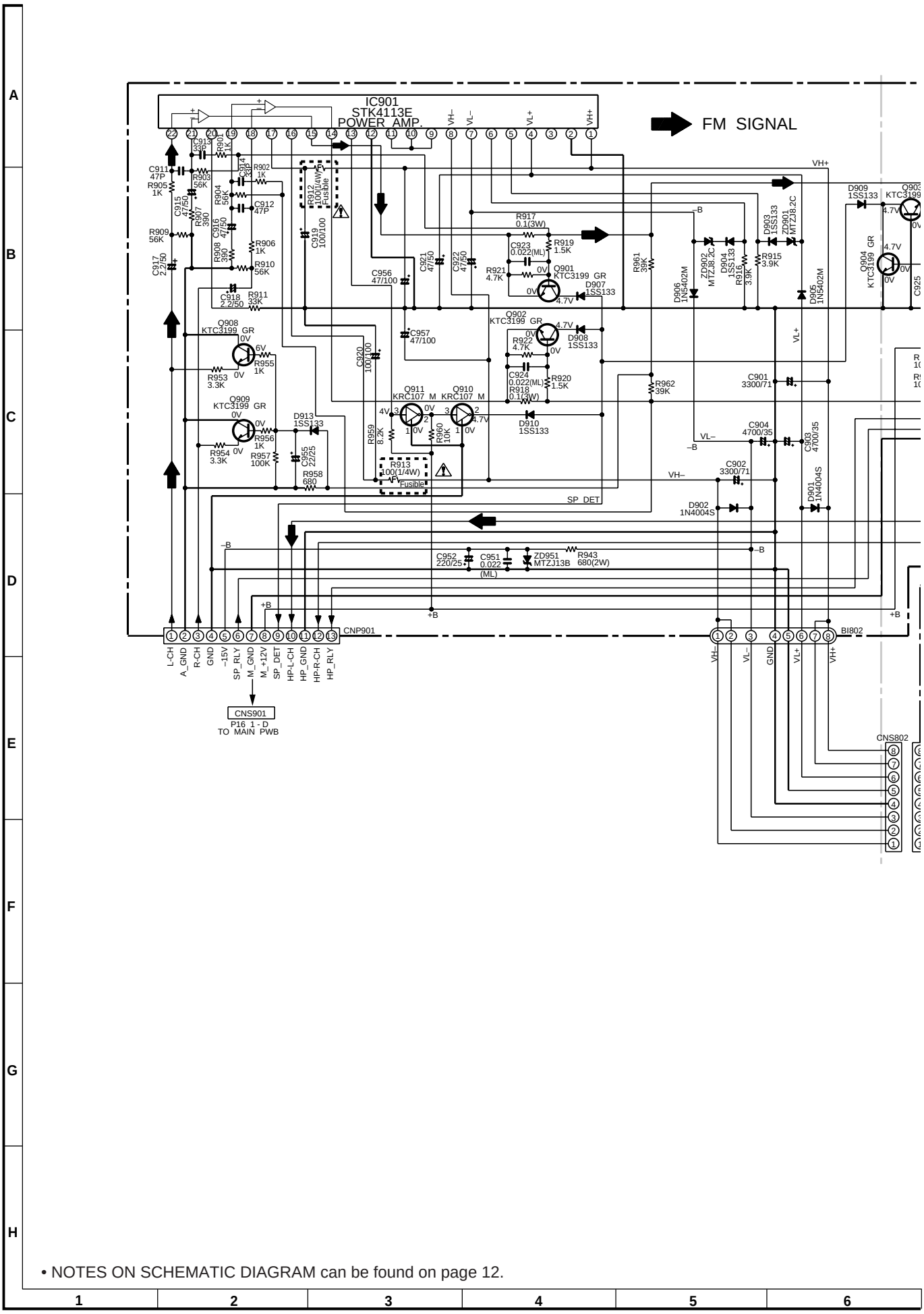
Figure 22 SCHEMATIC DIAGRAM (7/13)



• The numbers ❶ to ⓬ are waveform numbers shown in page 41.

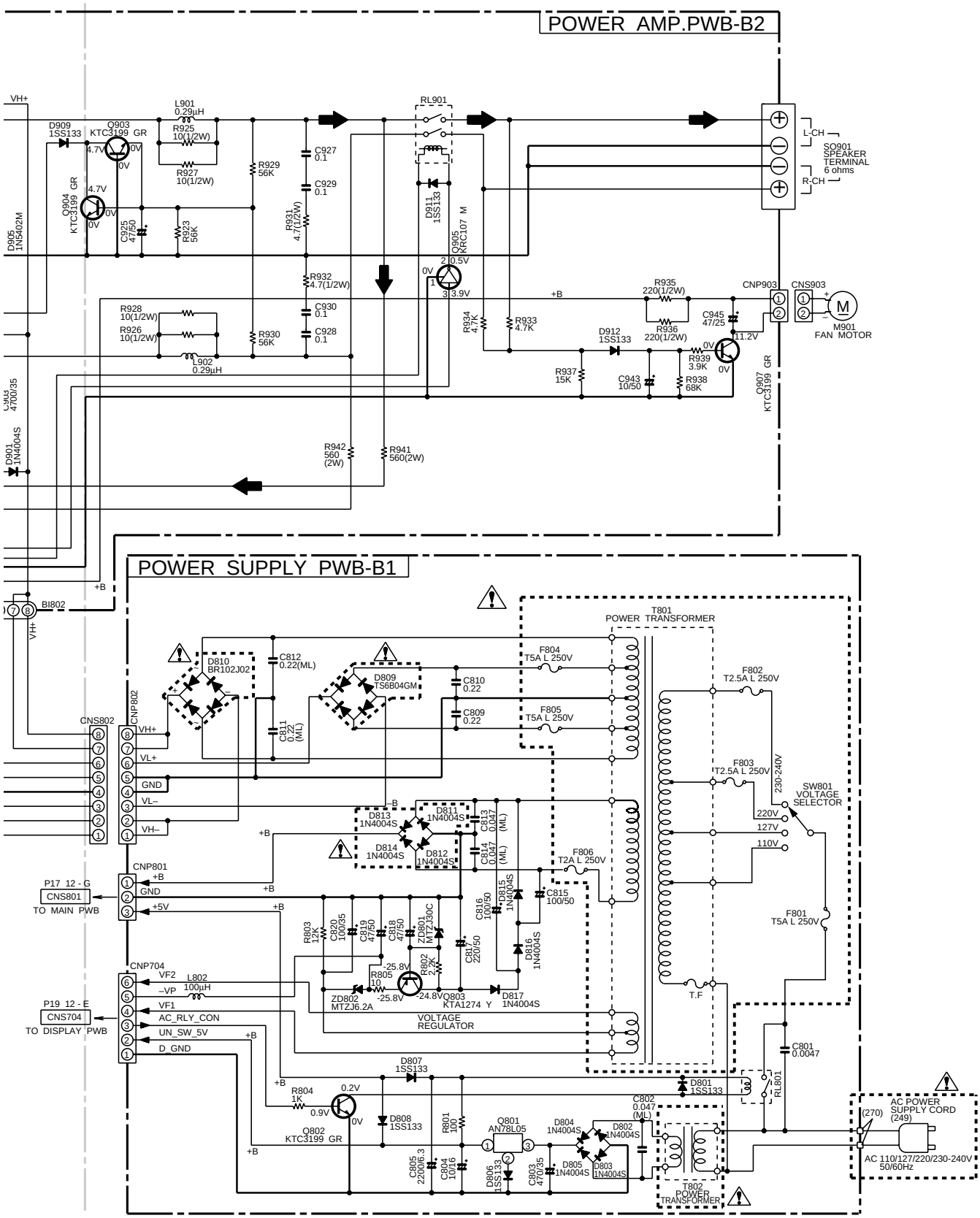
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (8/13)



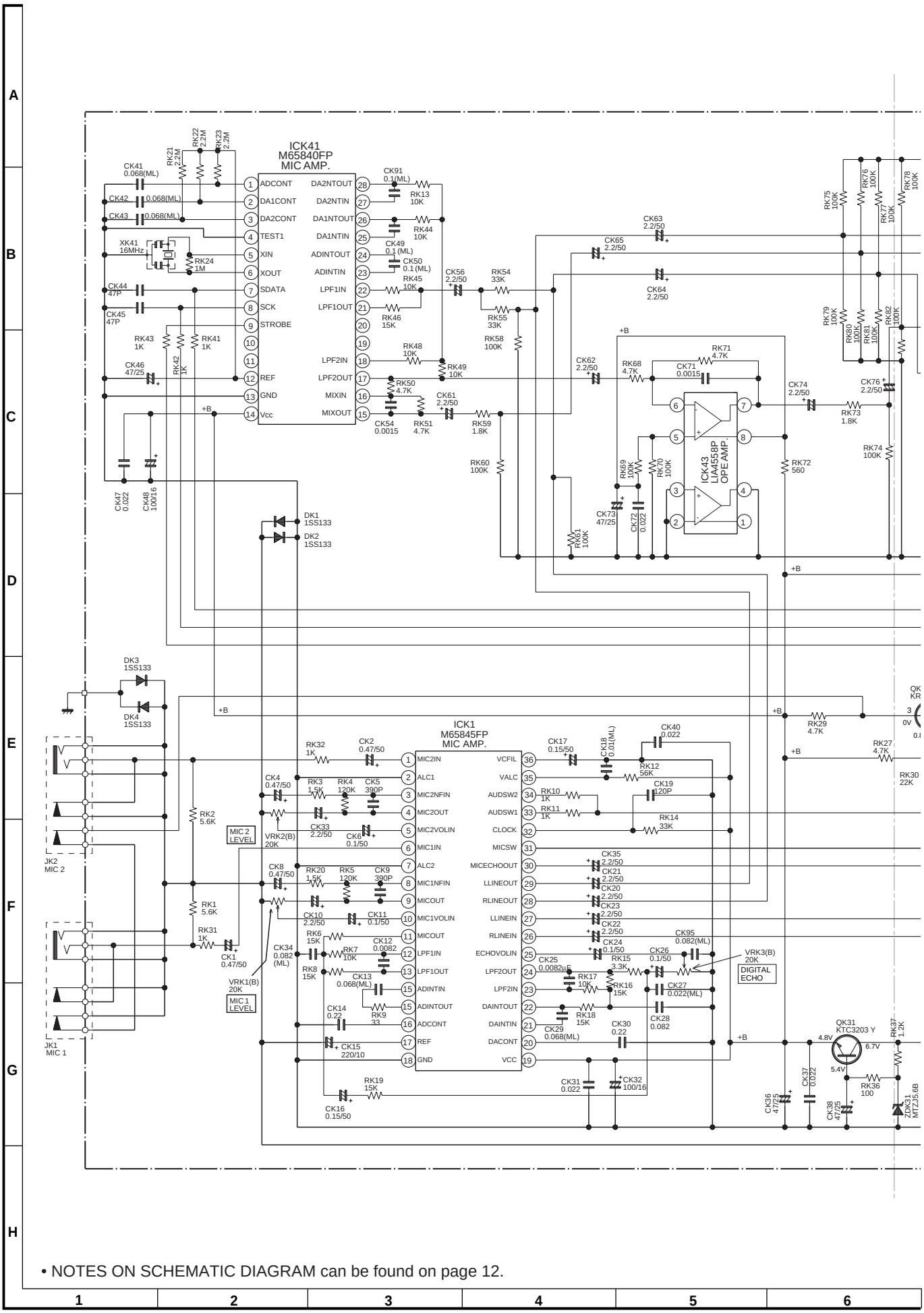
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 24 SCHEMATIC DIAGRAM (9/13)



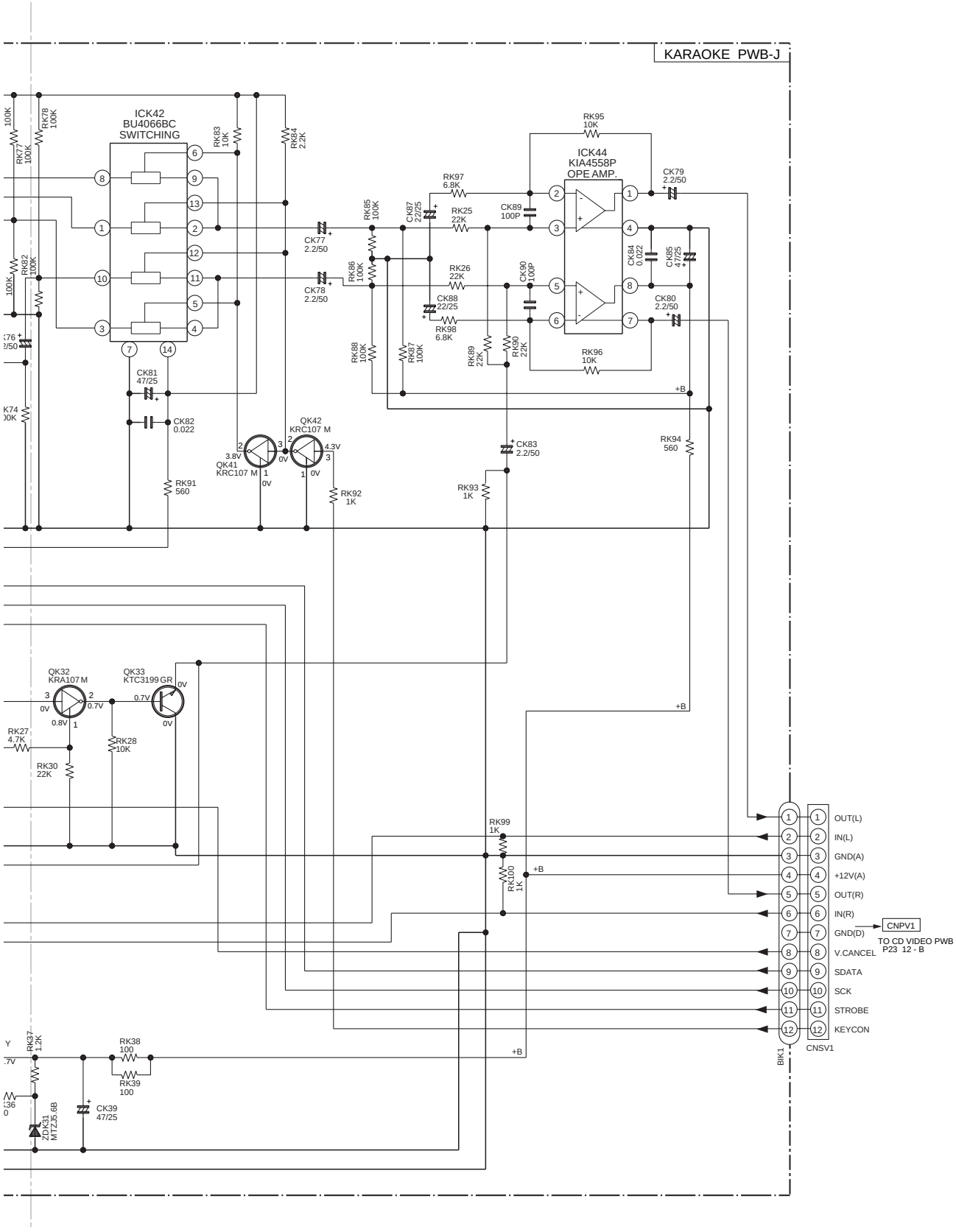
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (10/13)



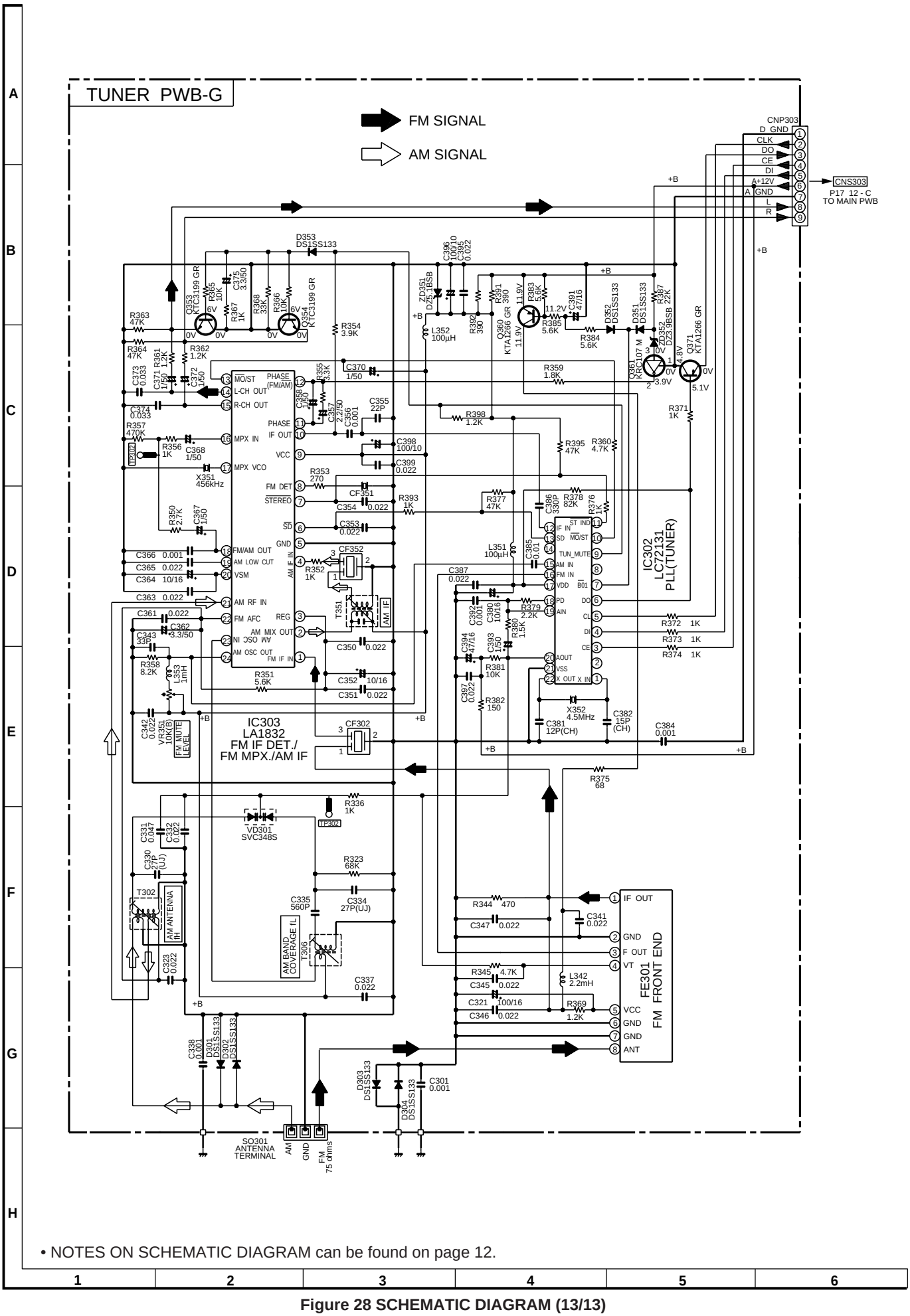
• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 26 SCHEMATIC DIAGRAM (11/13)



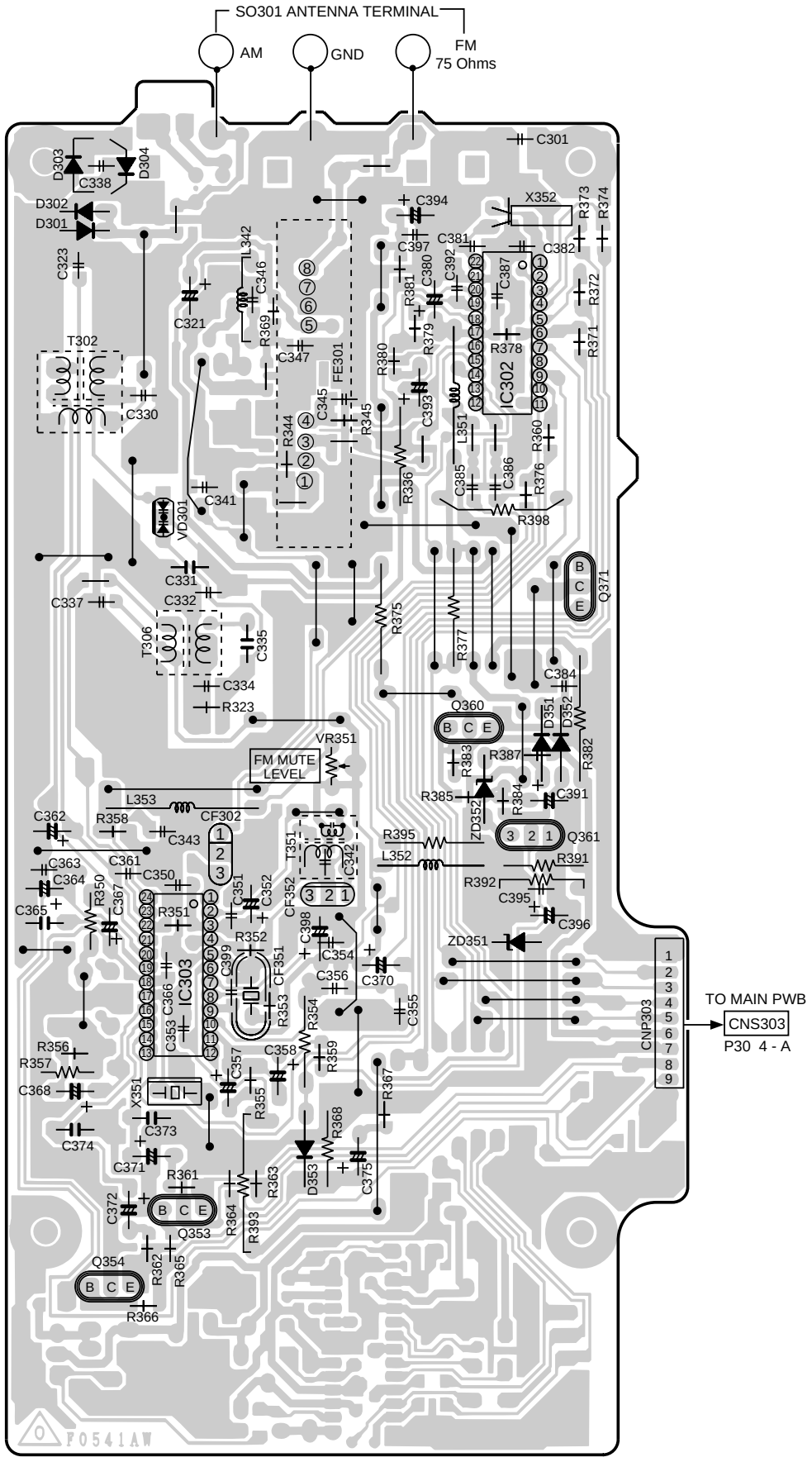
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (12/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 28 SCHEMATIC DIAGRAM (13/13)



TUNER PWB-G

7	8	9	10	11	12

Figure 29 WIRING SIDE OF P.W.BOARD (1/11)

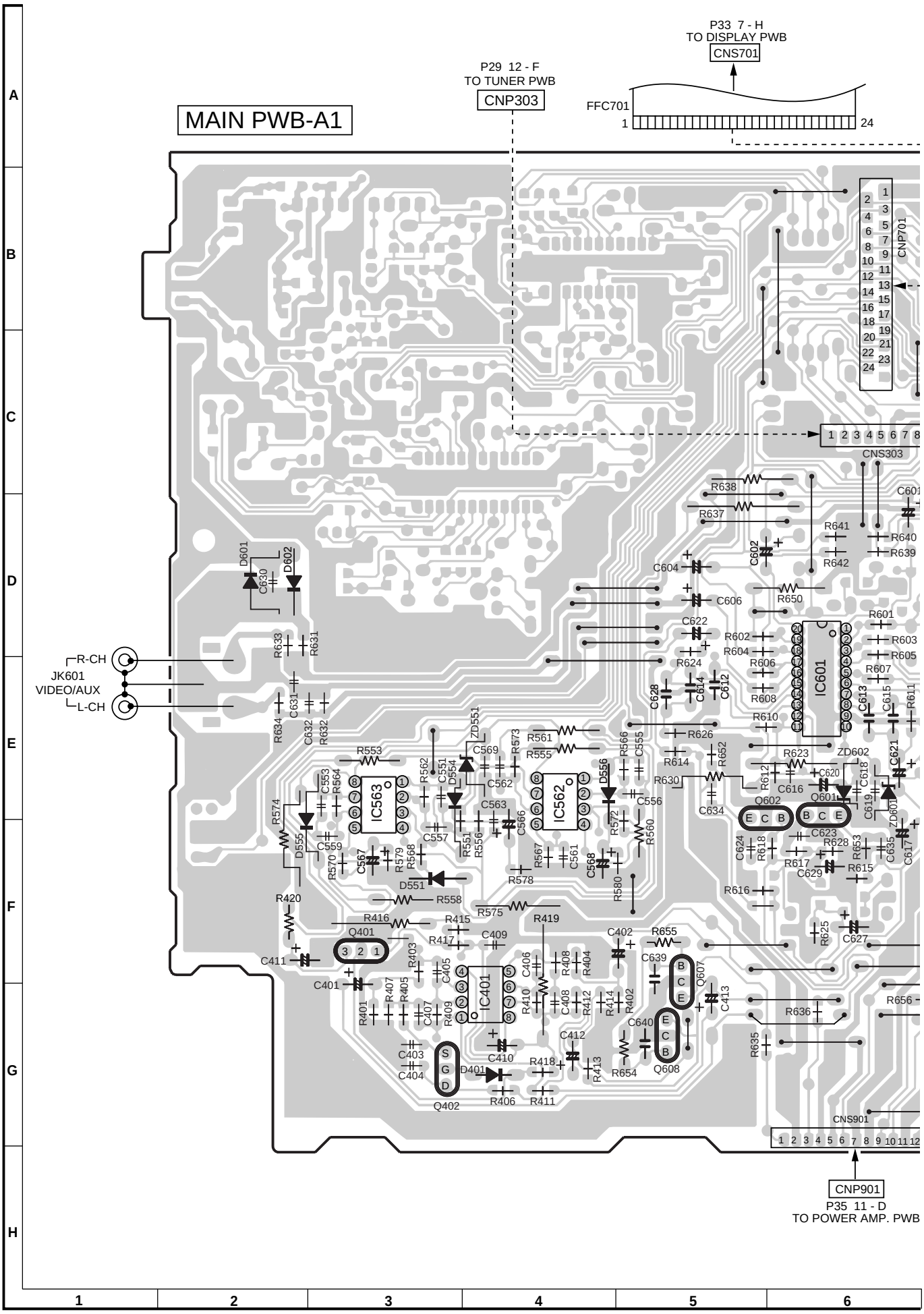
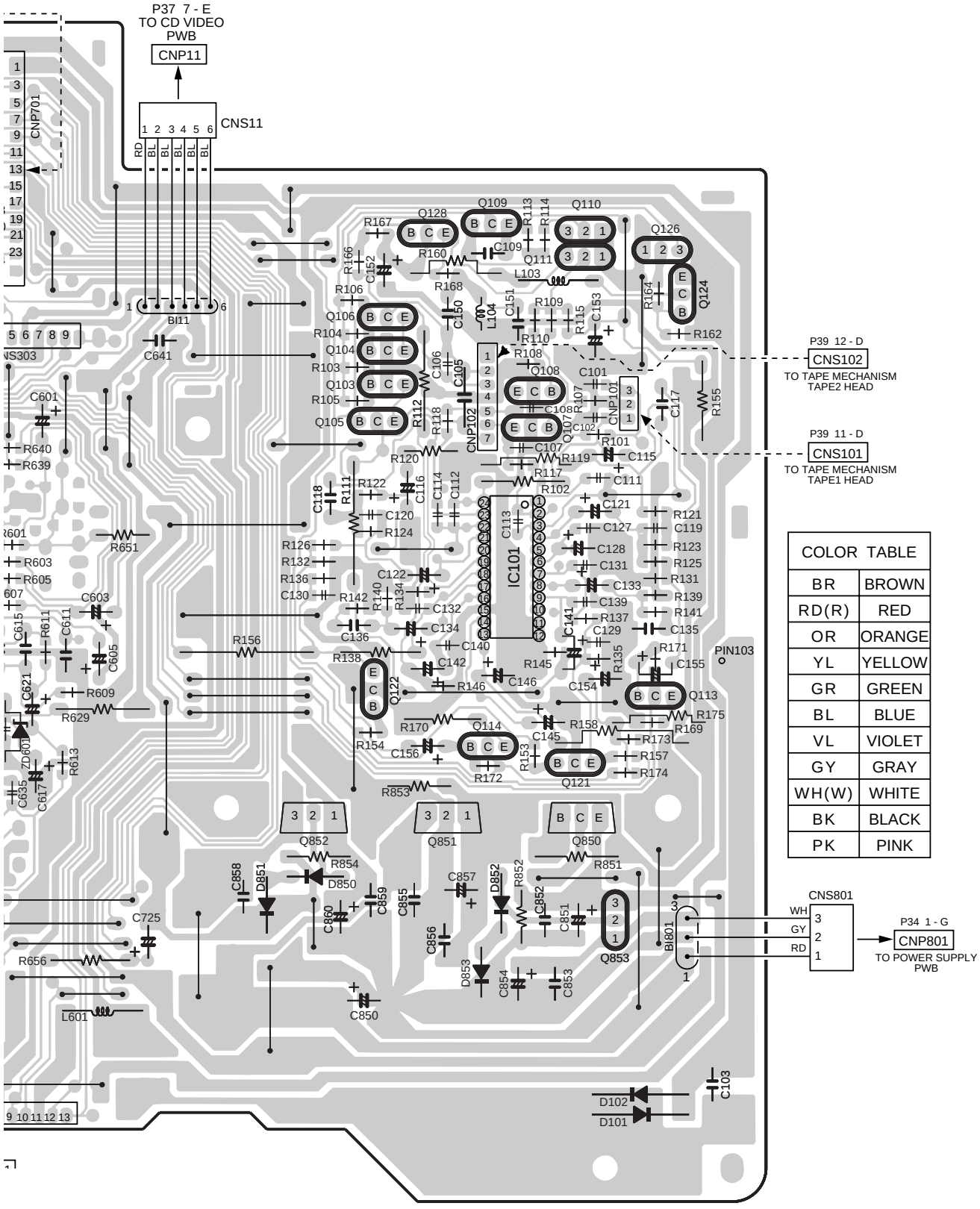


Figure 30 WIRING SIDE OF P.W.BOARD (2/11)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 31 WIRING SIDE OF P.W.BOARD (3/11)

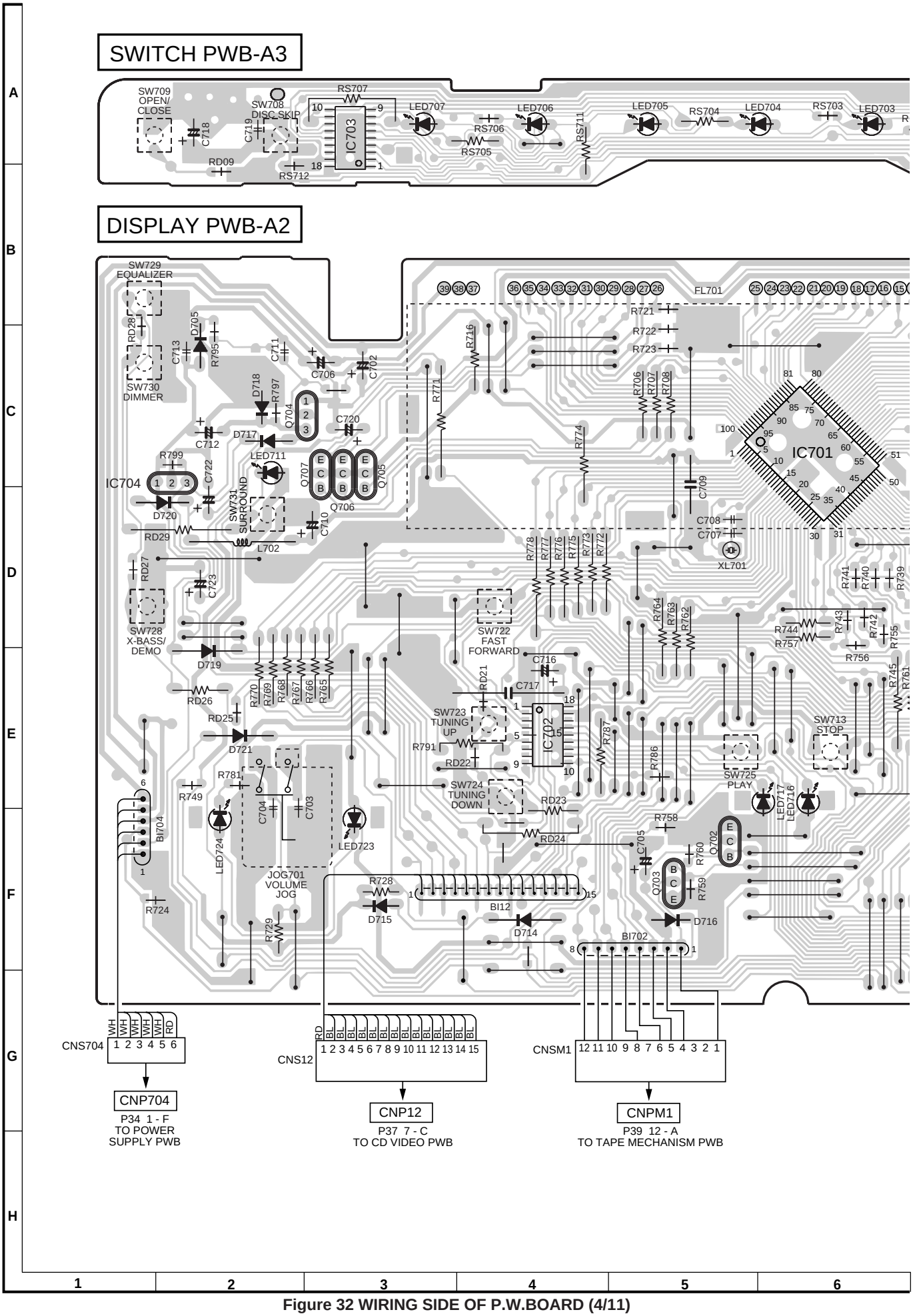
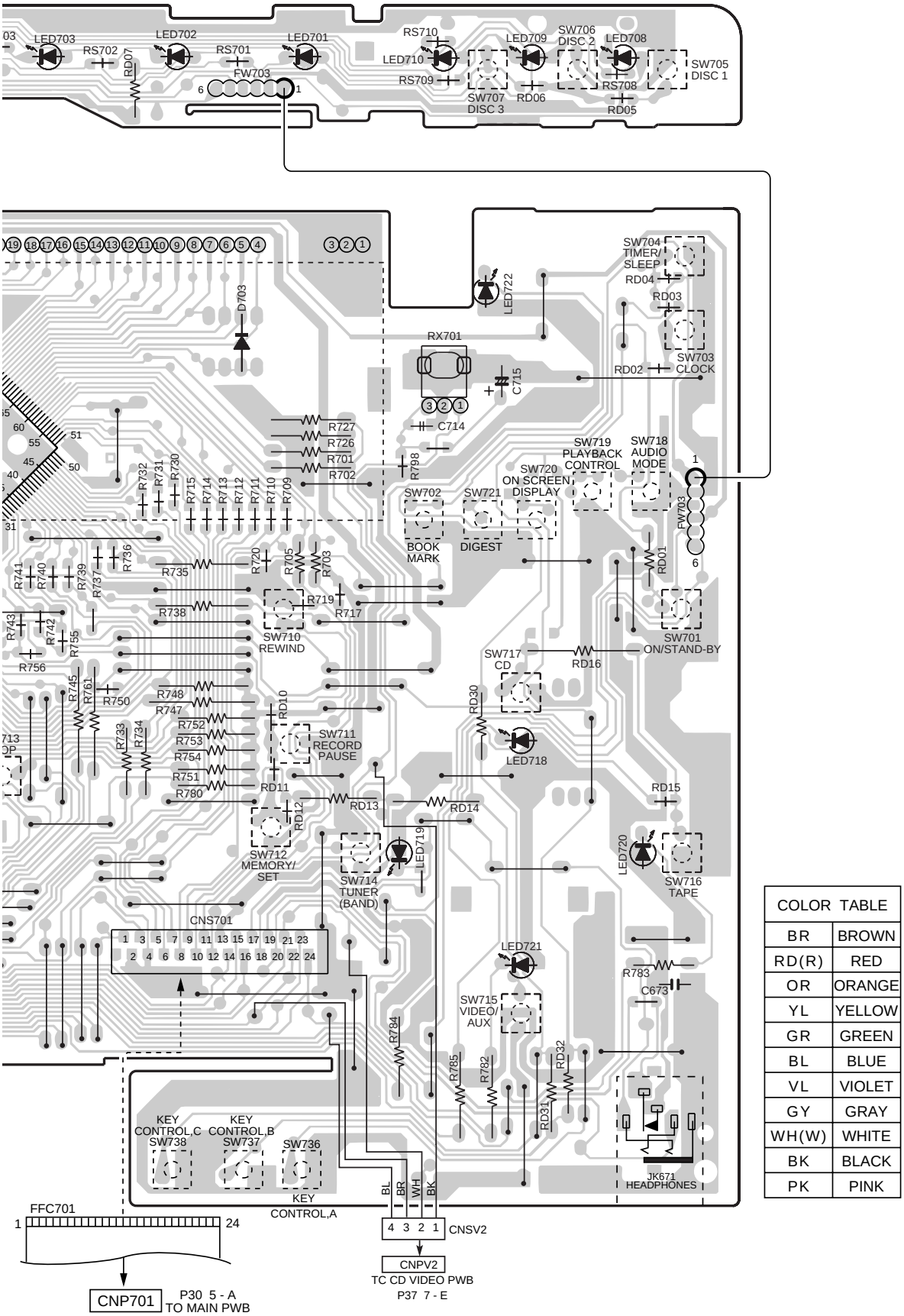


Figure 32 WIRING SIDE OF P.W.BOARD (4/11)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 33 WIRING SIDE OF P.W.BOARD (5/11)

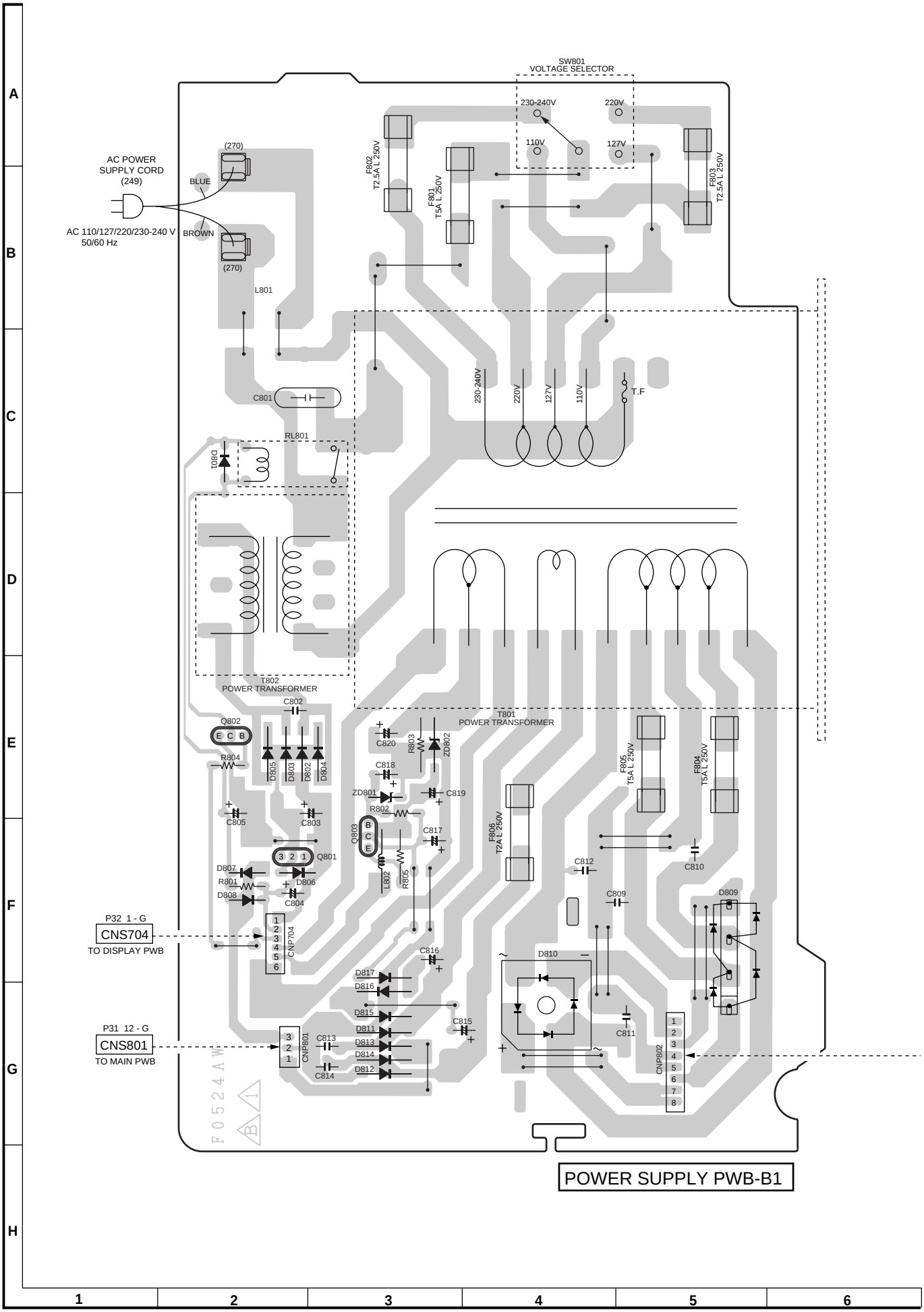
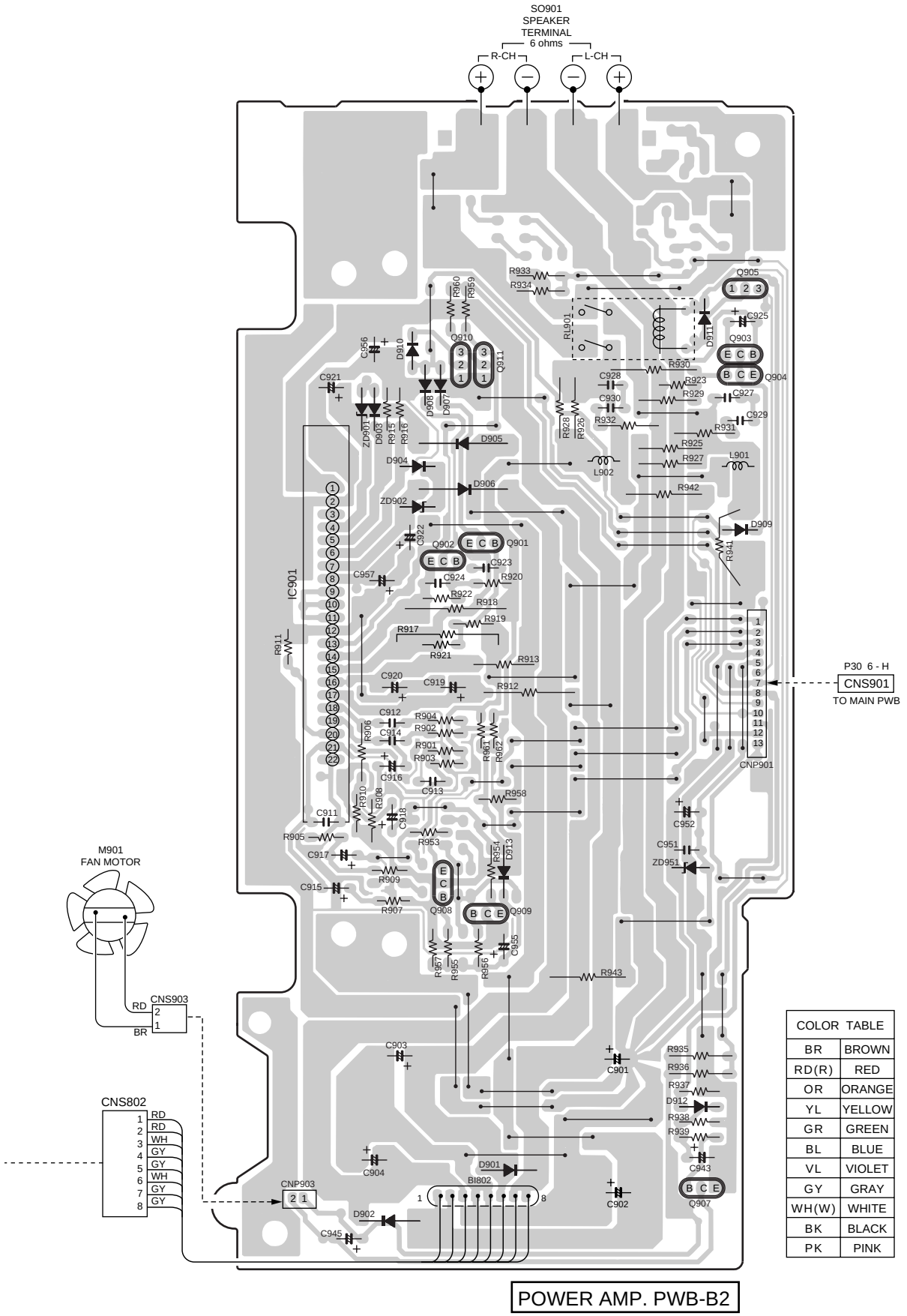


Figure 34 WIRING SIDE OF P.W.BOARD (6/11)



7	8	9	10	11	12

Figure 35 WIRING SIDE OF P.W.BOARD (7/11)

CD VIDEO PWB-C (TOP VIEW)

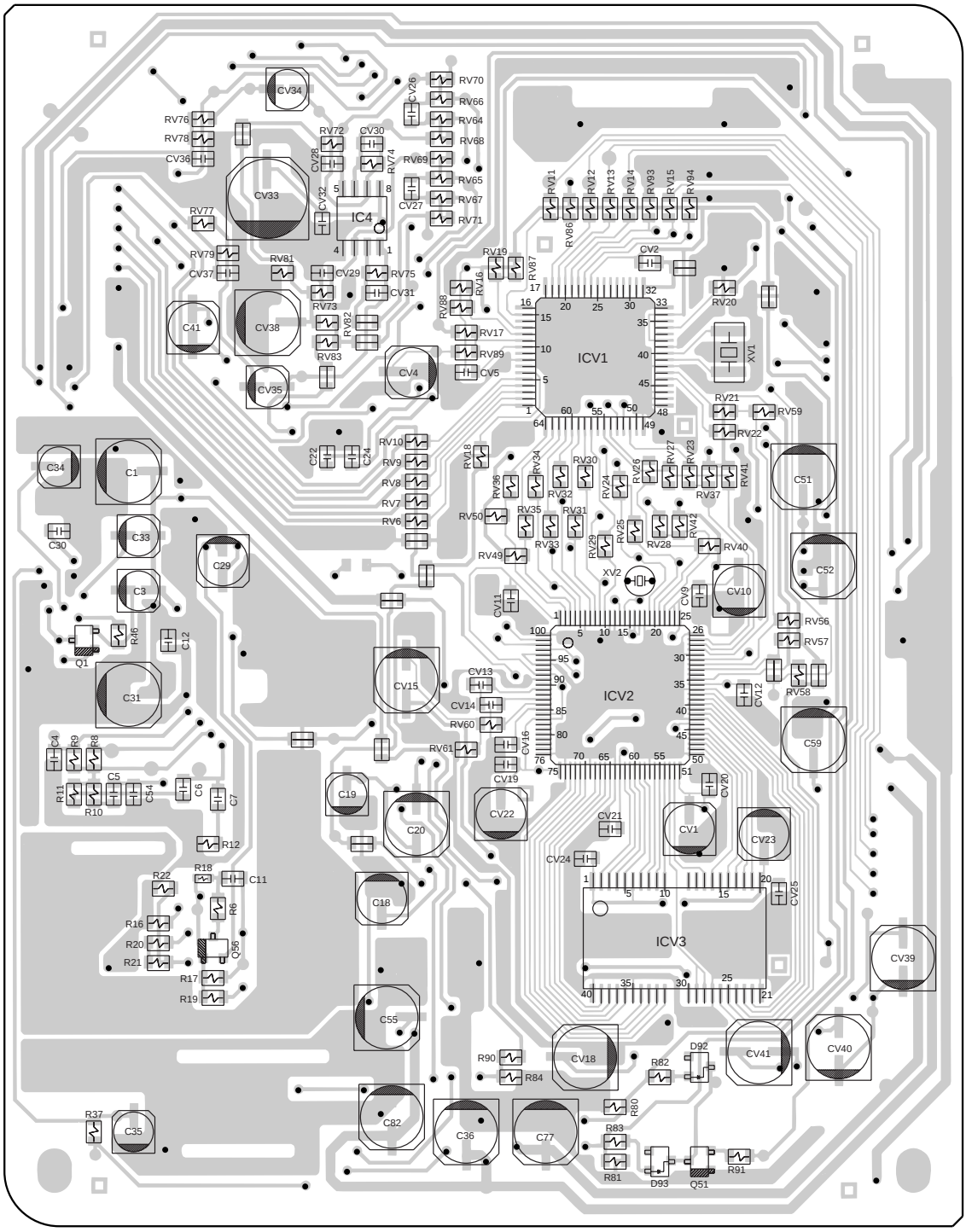
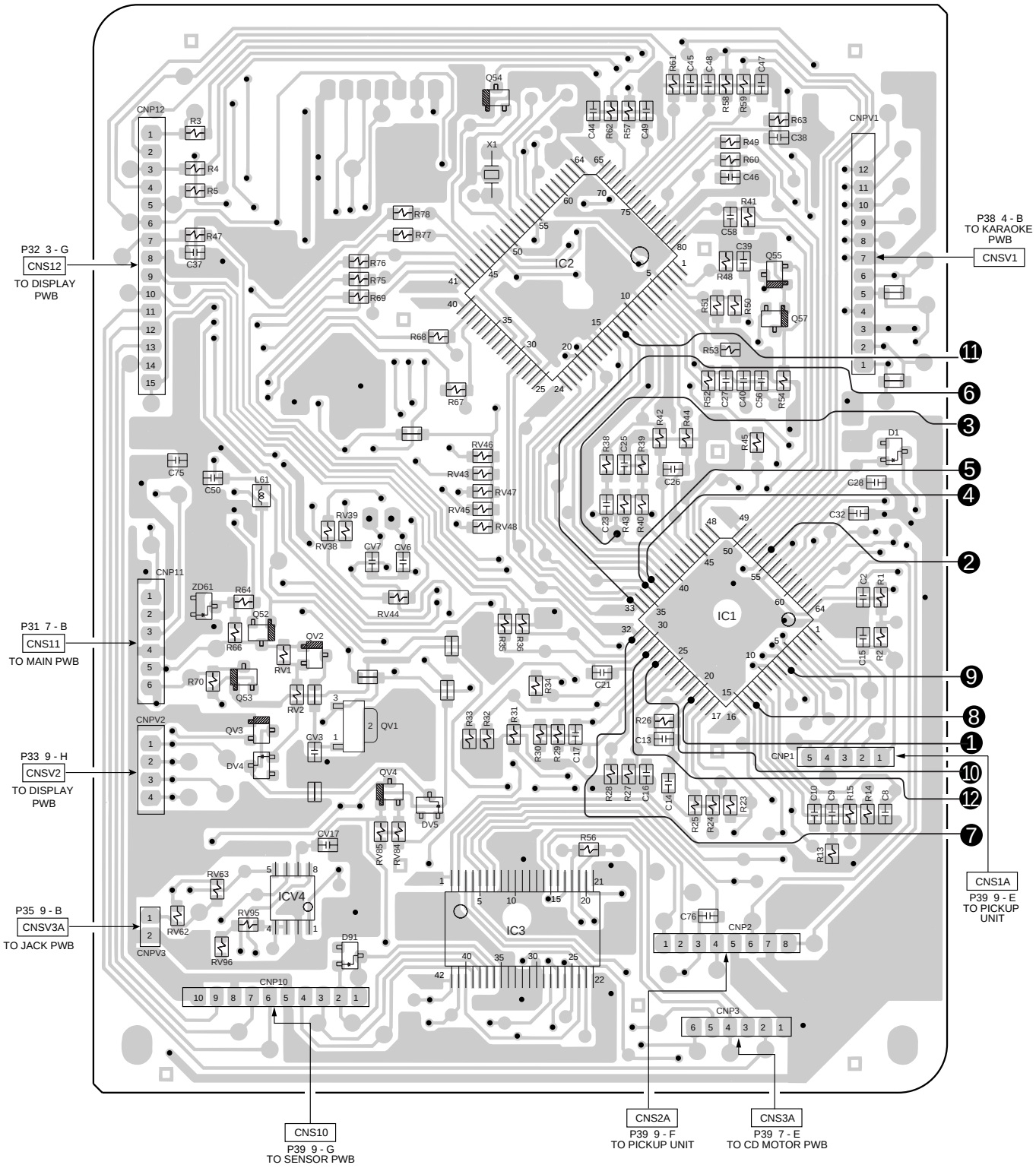


Figure 36 WIRING SIDE OF P.W.BOARD (8/11)

CD VIDEO PWB-C (BOTTOM VIEW)



• The numbers 1 to 12 are waveform numbers shown in page 41.

7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (9/11)

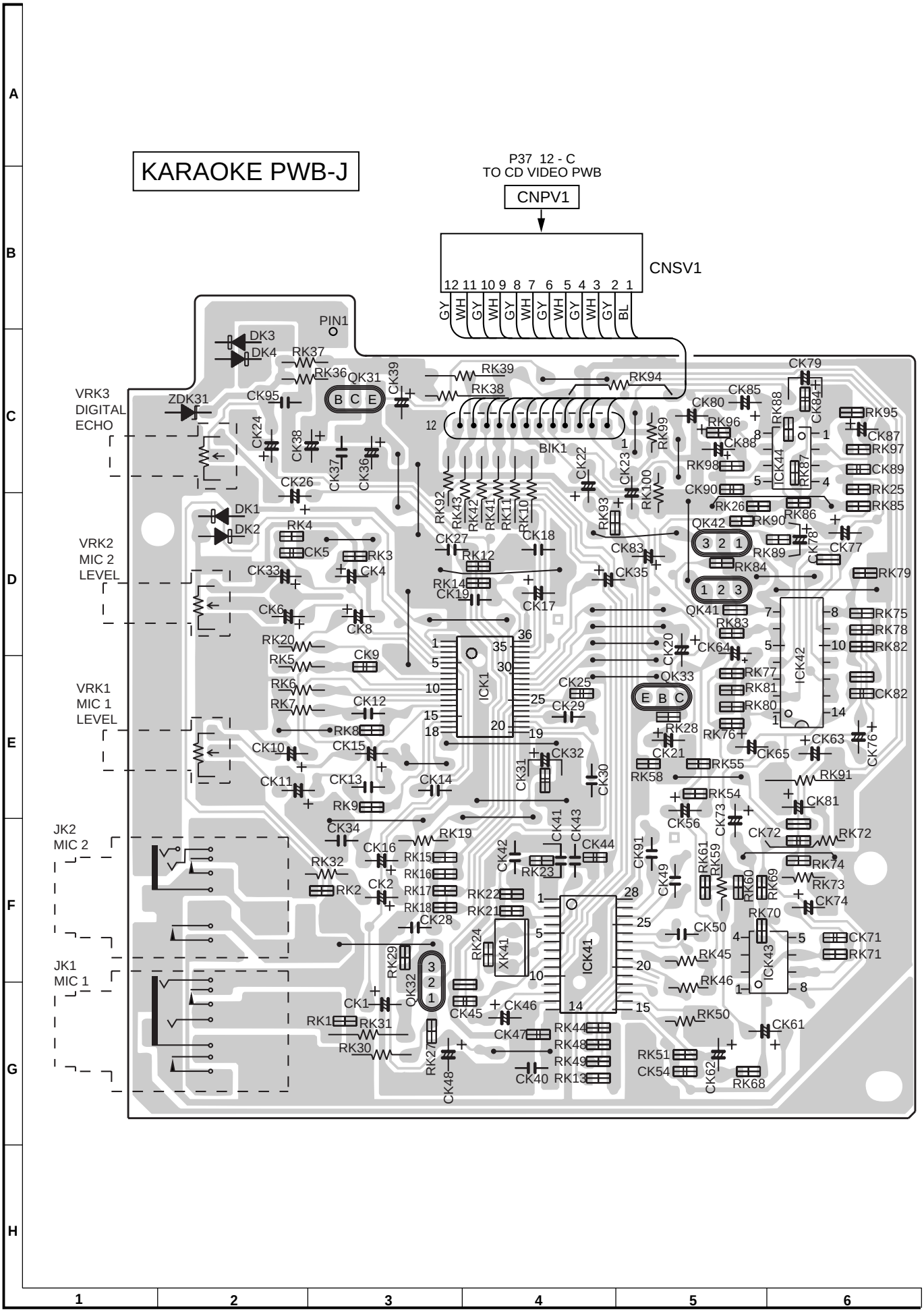
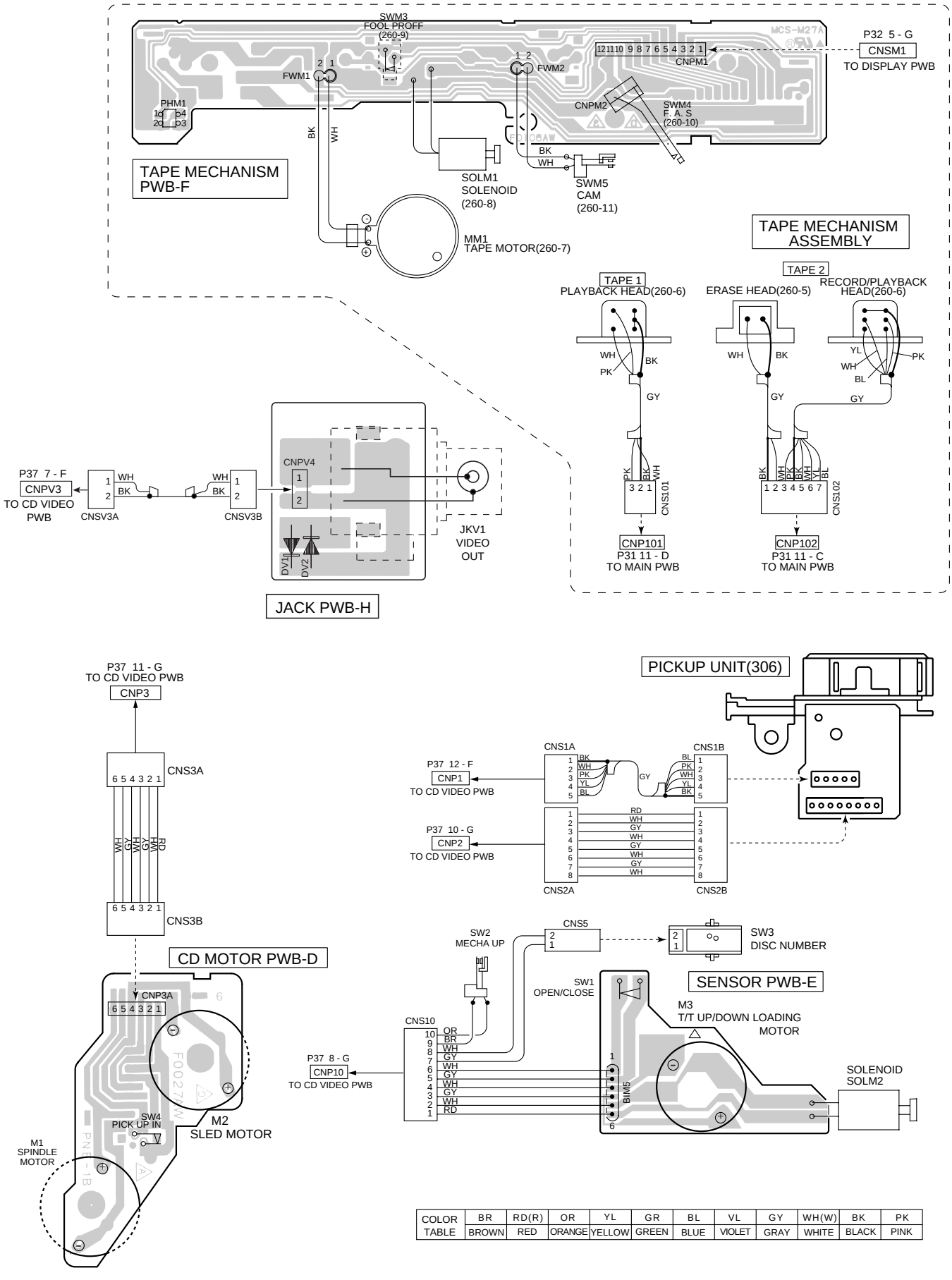


Figure 38 WIRING SIDE OF P.W.BOARD (10/11)



COLOR TABLE	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK

7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (9/11)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	2.5V
4	2.5V
5	2.5V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.5V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.5V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.3V
31	2.3V
32	0V
33	0V
34	5.0V
35	5.0V
36	0V
37	0V
38	5.0V
39	0V
40	0V
41	1.6V
42	2.4V
43	2.4V
44	2.4V
45	0V
46	2.5V
47	2.5V
48	0V
49	0V
50	2.4V
51	4.6V
52	4.6V
53	0V
54	0V
55	5.0V
56	5.0V
57	2.5V
58	2.5V
59	1.0V
60	1.0V
61	2.2V
62	4.2V
63	0V
64	5.0V

IC2	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	1.9V
6	5.0V
7	0V
8	0V
9	2.5V
10	2.4V
11	0V
12	0V
13	0V
14	5.0V
15	0V
16	0V
17	5.0V
18	5.0V
19	0V
20	0V
21	2.5V
22	0V
23	5.0V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	5.0V
31	2.5V
32	0V
33	0V
34	0V
35	5.0V
36	4.6V
37	1.9V
38	0V
39	0V
40	1.9V
41	4.6V
42	5.0V
43	5.0V
44	2.1V
45	2.1V
46	0V
47	0.1V
48	2.3V
49	0V
50	2.5V
51	0V
52	2.5V
53	0V
54	0V
55	0V
56	4.6V
57	4.6V
58	4.7V
59	0V
60	2.3V
61	2.3V
62	0V
63	0V
64	0V

IC3	
PIN NO.	VOLTAGE
1	2.5V
2	2.6V
3	2.9V
4	3.3V
5	3.3V
6	3.3V
7	3.3V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	3.3V
16	3.3V
17	3.0V
18	7.2V
19	5.0V
20	2.5V
21	0V
22	0V
23	0V
24	7.2V
25	2.5V
26	3.3V
27	3.3V
28	11.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	5.3V
37	5.3V
38	3.3V
39	3.3V
40	7.2V
41	0.1V
42	0.1V

FE301	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	2.6V (0V)
4	2V (1.1V)
5	8.5V (0V)
6	0V (0V)
7	0V (0V)
8	0V (0V)

IC562	
PIN NO.	VOLTAGE
1	0.2V
2	0.2V
3	0.2V
4	–7.7V
5	0.0V
6	0.0V
7	0.0V
8	6.3V

IC563	
PIN NO.	VOLTAGE
1	0.1V
2	0.2V
3	0.1V
4	–7.7V
5	0.1V
6	0.2V
7	0.1V
8	6.3V

IC901	
PIN NO.	VOLTAGE
1	56.0V
2	0.0V
3	24.4V
4	25.0V
5	15.9V
6	–16.0V
7	–24.90V
8	–55.9V
9	–24.3V
10	–24.3V
11	–24.3V
12	0.0V
13	4.2V
14	0.0V
15	0.0V
16	–54.5V
17	54.6V
18	–0.15V
19	–0.15V
20	–53.1V
21	–0.15V
22	–0.15V

IC302	
PIN NO.	VOLTAGE
1	2.6V (2.6V)
2	0.0V (0.0V)
3	0.0V (0.5V)
4	0.0V (0.0V)
5	4.4V (4.4V)
6	4.8V (4.8V)
7	0.2V (11.9V)
8	0.5V (0.1V)
9	0.2V (0.2V)
10	0.0V (0.0V)
11	5.2V (5.2V)
12	2.5V (2.5V)
13	5.1V (5.1V)
14	0.0V (0.0V)
15	0.0V (2.6V)
16	2.5V (0.0V)
17	5.2V (5.2V)
18	0.9V (0.9V)
19	0.9V (0.9V)
20	1.3V (1.1V)
21	0.0V (0.0V)
22	2.6V (2.6V)

IC601	
PIN NO.	VOLTAGE
1	0.0V
2	0.0V
3	0.0V
4	0.0V
5	–0.2V
6	0.0V
7	0.0V
8	0.0V
9	0.0V
10	2.6V
11	0.1V
12	–2.6V
13	0.0V
14	0.0V
15	0.0V
16	0.0V
17	0.0V
18	0.0V
19	0.0V
20	0.0V

IC702	
PIN NO.	VOLTAGE
1	0.0V
2	0.0V
3	0.4V
4	0.0V
5	0.0V
6	0.0V
7	0.0V
8	0.0V
9	0.0V
10	0.4V
11	0.4V
12	0.4V
13	9.6V
14	9.6V
15	9.6V
16	0.0V
17	0.0V
18	4.8V

IC303	
PIN NO.	VOLTAGE
1	1.6V (1.7V)
2	1.6V (1.7V)
3	7.0V (8.4V)
4	0.3V (0.6V)
5	1.6V (1.7V)
6	0.0V (0.0V)
7	5.2V (5.2V)
8	0.0V (0.0V)
9	2.2V (2.3V)
10	2.4V (2.5V)
11	6.3V (8.3V)
12	0.9V (0.9V)
13	1.1V (0.0V)
14	1.8V (1.7V)
15	0.9V (1.2V)
16	1.7V (1.7V)
17	1.5V (1.7V)
18	1.6V (1.6V)
19	0.4V (0.5V)
20	7.0V (8.4V)
21	7.0V (8.4V)
22	1.6V (1.7V)
23	1.6V (1.7V)
24	1.6V (1.7V)

IC703	
PIN NO.	VOLTAGE
1	0.0V
2	0.0V
3	0.4V
4	0.0V
5	0.4V
6	0.4V
7	0.4V
8	0.4V
9	0.4V
10	0.4V
11	0.4V
12	9.6V
13	9.6V
14	9.6V
15	12.9V
16	10.9V
17	0.0V
18	5.0V

ICK1	
PIN NO.	VOLTAGE
1	2.4V
2	0V
3	2.4V
4	2.4V
5	2.4V
6	0V
7	2.4V
8	2.4V
9	2.4V
10	2.4V
11	2.4V
12	2.4V
13	2.4V
14	2.4V
15	2.4V
16	0.5V
17	2.4V
18	0V
19	4.7V
20	0.5V
21	2.4V
22	2.4V
23	2.4V
24	2.4V
25	2.4V
26	2.4V
27	2.4V
28	2.4V
29	2.4V
30	2.4V
31	0V
32	1.9V
33	0V
34	0V
35	4.7V
36	2.7V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.8V	51	4.8V
2	4.8V	52	4.8V
3	4.8V	53	0.0V
4	0.0V	54	4.8V
5	0.0V	55	0.0V
6	0.0V	56	0.0V
7	0.0V	57	0.0V
8	0.0V	58	4.8V
9	0.0V	59	4.9V
10	4.8V	60	4.9V
11	2.3V	61	0.0V
12	2.2V	62	4.8V
13	0.0V	63	4.8V
14	4.9V	64	5.1V
15	0.0V	65	5.1V
16	4.9V	66	–21.5V
17	0.0V	67	–20.0V
18	4.8V	68	–19.5V
19	0.0V	69	–21.3V
20	4.8V	70	–21.3V
21	4.8V	71	–21.3V
22	0.0V	72	–21.3V
23	0.0V	73	0.0V
24	0.0V	74	–0.7V
25	0.0V	75	–20.7V
26	0.0V	76	–18.0V
27	0.0V	77	–23.3V
28	0.0V	78	0.0V
29	0.0V	79	–28.7V
30	4.8V	80	–0.1V
31	5.1V	81	–20.4V
32	5.1V	82	–20.6V
33	5.1V	83	–0.1V
34	4.8V	84	–23.3V
35	5.0V	85	–18.5V
36	4.7V	86	–21.1V
37	0.0V	87	0.0V
38	5.0V	88	–0.5V
39	5.0V	89	–20.5V
40	0.0V	90	–25.8V
41	4.7V	91	–25.8V
42	0.0V	92	–25.8V
43	3.8V	93	–25.8V
44	11.3V	94	–25.8V
45	11.3V	95	–25.8V
46	4.8V	96	–25.8V
47	4.7V	97	–25.8V
48	4.7V	98	–25.8V
49	4.7V	99	–25.8V
50	0.0V	100	–25.8V

ICV1			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0V	33	0V
2	0V	34	5.0V
3	5.0V	35	5.0V
4	0V	36	5.0V
5	5.0V	37	0V
6	1.5V	38	5.0V
7	0V	39	0V
8	0V	40	0V
9	0V	41	3.0V
10	5.0V	42	0V
11	0.1V	43	0V
12	0V	44	5.0V
13	0.1V	45	0V
14	0V	46	0V
15	5.0V	47	0V
16	0V	48	0V
17	0V	49	0V
18	0V	50	0V
19	0V	51	5.0V
20	0.5V	52	0V
21	0V	53	5.0V
22	0V	54	5.0V
23	0V	55	0.1V
24	5.0V	56	1.2V
25	0V	57	3.3V
26	0V	58	3.3V
27	0V	59	3.3V
28	0V	60	3.3V
29	0V	61	3.3V
30	0V	62	0V
31	0V	63	3.3V
32	0V	64	2.8V

ICV2			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	3.3V	51	3.3V
2	3.3V	52	3.3V
3	3.3V	53	2.5V
4	3.3V	54	0.5V
5	3.3V	55	0V
6	0V	56	0V
7	3.3V	57	0V
8	3.3V	58	0V
9	3.3V	59	0V
10	3.3V	60	0V
11	0V	61	0V
12	0V	62	0V
13	1.5V	63	3.3V
14	1.5V	64	0V
15	3.3V	65	3.3V
16	3.3V	66	0V
17	3.3V	67	0V
18	0V	68	0V
19	0.5V	69	0V
20	5.0V	70	0V
21	5.0V	71	0V
22	1.5V	72	0V
23	3.3V	73	0V
24	3.3V	74	0V
25	3.3V	75	3.3V
26	0V	76	0V
27	5.0V	77	1.5V
28	1.0V	78	0V
29	0V	79	0V
30	0V	80	0V
31	2.5V	81	3.3V
32	2.0V	82	3.3V
33	2.5V	83	3.3V
34	0V	84	3.3V
35	0V	85	1.0V
36	3.3V	86	1.5V
37	0V	87	0V
38	1.5V	88	0V
39	1.5V	89	0V
40	1.5V	90	0V
41	1.5V	91	0V
42	1.5V	92	3.3V
43	0V	93	0V
44	3.3V	94	0V
45	2.5V	95	5.0V
46	1.0V	96	0V
47	0.5V	97	2.5V
48	0.5V	98	2.5V
49	2.6V	99	1.5V
50	0V	100	0V

IC4	
PIN NO.	VOLTAGE
1	2.6V
2	2.6V
3	2.6V
4	0V
5	2.4V
6	2.4V
7	2.6V
8	5.0V

ICV4	
PIN NO.	VOLTAGE
1	2.0V
2	0V
3	2.0V
4	2.0V
5	2.2V
6	2.2V
7	5.0V
8	2.2V

Q850	
PIN NO.	VOLTAGE
1	11.3V
2	18.1V
3	11.9V

Q851	
PIN NO.	VOLTAGE
1	11.9V
2	0.0V
3	19.1V

Q852	
PIN NO.	VOLTAGE
1	7.3V
2	1.3V
3	19.0V

IC704	
PIN NO.	VOLTAGE
1	4.9V
2	0V
3	4.9V

Q853	
PIN NO.	VOLTAGE
1	6.3V
2	1.2V
3	11.3V

IC401	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	-6V
5	0V
6	0V
7	0V
8	10.7V

ICK43	
PIN NO.	VOLTAGE
1	3.2V
2	3.2V
3	0V
4	0V
5	1.8V
6	1.8V
7	1.8V
8	3.7V

ICK42	
PIN NO.	VOLTAGE
1	1.8V
2	1.8V
3	1.8V
4	1.8V
5	3.7V
6	3.7V
7	0V
8	1.8V
9	1.8V
10	1.8V
11	1.8V
12	0V
13	0V
14	3.8V

ICK41	
PIN NO.	VOLTAGE
1	0.7V
2	0.7V
3	0.7V
4	0V
5	2.2V
6	2.2V
7	0V
8	5V
9	0V
10	0V
11	0V
12	2.4V
13	0V
14	4.7V
15	2.4V
16	2.4V
17	2.4V
18	2.4V
19	4.7V
20	0V
21	2.4V
22	2.4V
23	2.4V
24	2.4V
25	2.4V
26	2.4V
27	2.4V
28	2.4V

ICK44	
PIN NO.	VOLTAGE
1	4V
2	4V
3	4V
4	0V
5	4V
6	4V
7	4V
8	8V

ICV3	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	0V
4	0V
5	0V
6	5.0V
7	0V
8	0V
9	0V
10	0.5V
11	0V
12	0V
13	3.3V
14	2.6V
15	0V
16	0.5V
17	0.5V
18	1.0V
19	2.7V
20	5.0V
21	0V
22	1.5V
23	1.5V
24	1.5V
25	1.5V
26	1.5V
27	0V
28	2.5V
29	2.5V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	0V
37	0V
38	0V
39	0.5V
40	0V

QV1	
PIN NO.	VOLTAGE
1	8V
2	0V
3	3.3V

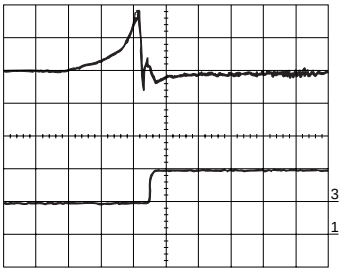
WAVEFORMS OF CD CIRCUIT

STOP → PLAY

FOCUS — SERCH

1 5ms 0.50 V IC1 (20) F.E

2 5ms 5.0 V IC1 (54) DRF

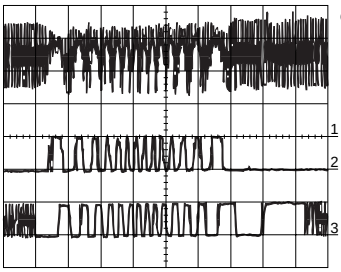


3 0.5ms 1.00 V HF

4 0.5ms 5.0 V HFL

5 0.5ms 5.0 V TES

CUE

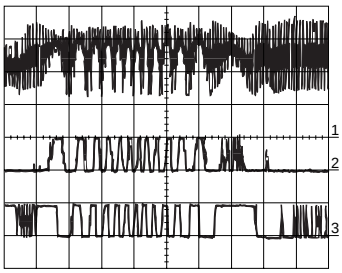


3 0.5ms 1.00 V HF

4 0.5ms 5.0 V HFL

5 0.5ms 5.0 V TES

REVIEW



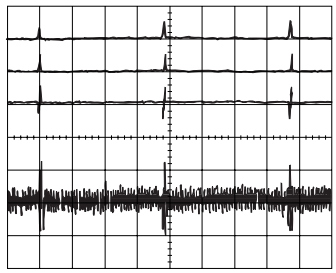
6 50ms 10.0 V JP+

7 50ms 10.0 V JP-

8 50ms 0.50 V JP

9 50ms 1.00 V TE

CUE

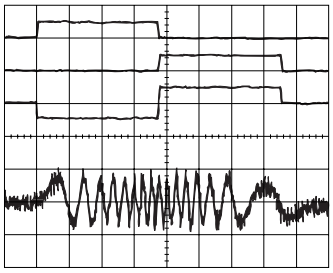


6 0.5ms 10.0 V JP+

7 0.5ms 10.0 V JP-

8 0.5ms 0.50 V JP

9 0.5ms 1.00 V TE



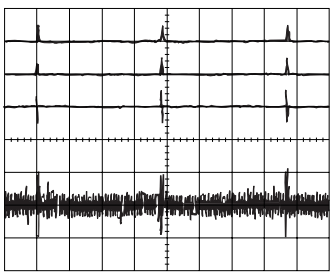
6 50ms 10.0 V JP+

7 50ms 10.0 V JP-

8 50ms 0.50 V JP

9 50ms 1.00 V TE

REVIEW

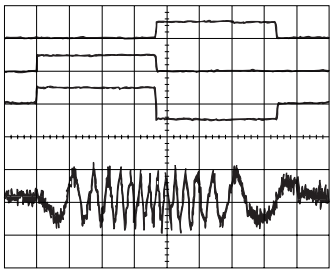


6 0.5ms 10.0 V JP+

7 0.5ms 10.0 V JP-

8 0.5ms 0.50 V JP

9 0.5ms 1.00 V TE



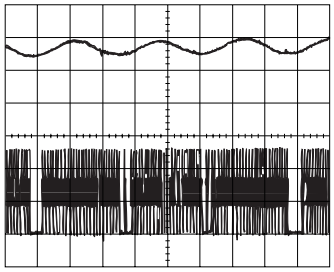
PLAY

NORMAL DISC

TN0=01

10 20ms 1.00 V SPO

11 20ms 2.00 V CLV+



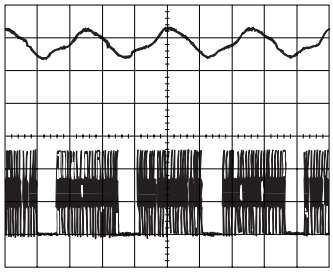
PLAY

TCD-712 (140mm)

TN0=01

10 50ms 1.00 V SPO

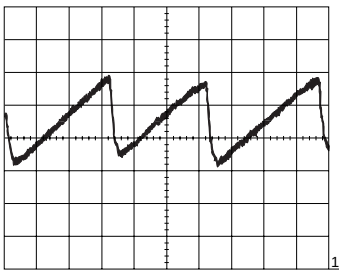
11 50ms 2.00 V CLV+



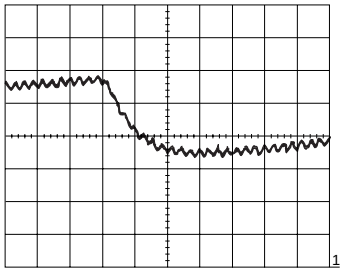
PLAY

TCD-712

12 5s 100mV SLD



12 0.5s 100mV SLD



TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.
To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has ▲ the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continues to turn, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30 - 50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD player or on computer CD ROM drives.

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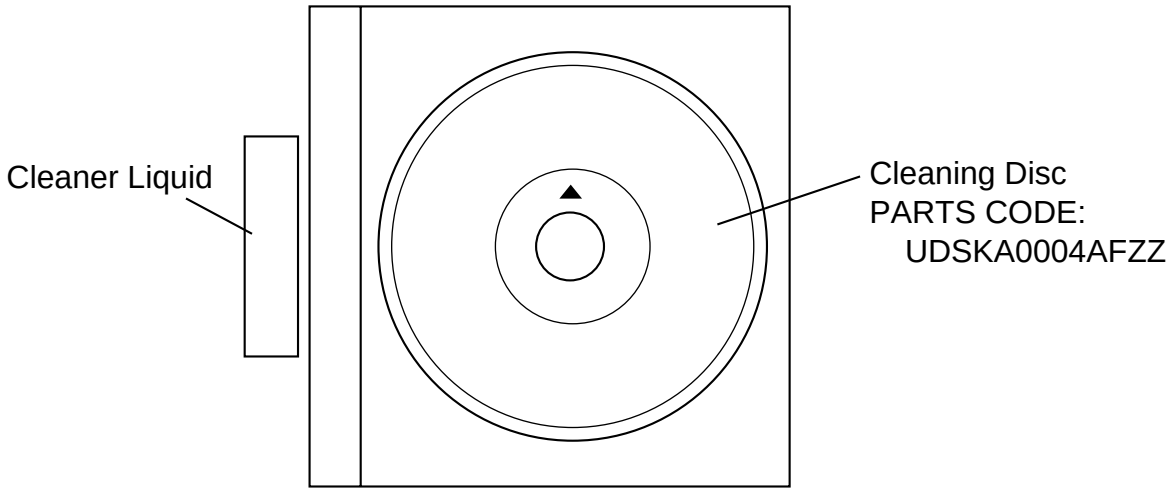
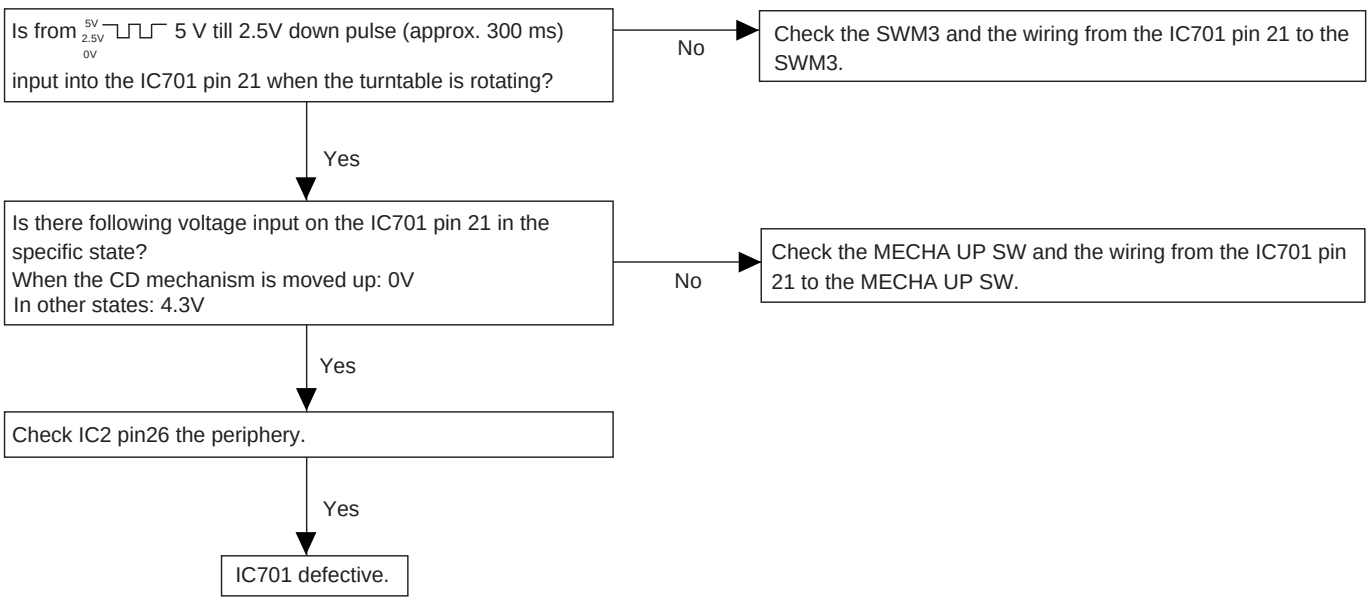
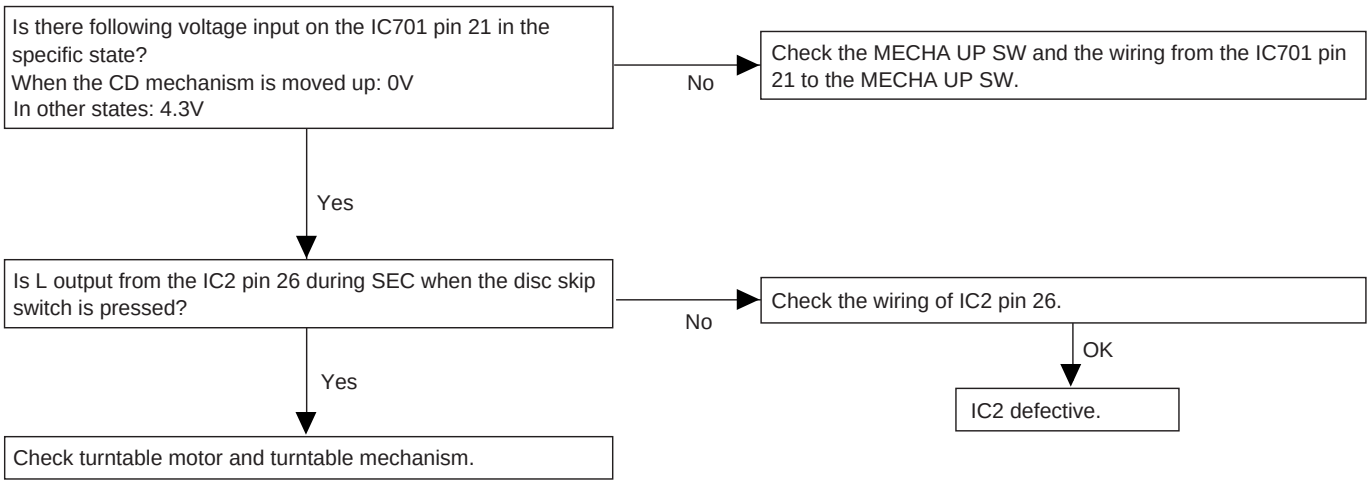


Figure 42

• When the turntable fails to stop.


Is from 5V 2.5V 0V 5 V till 2.5V down pulse (approx. 300 ms) input into the IC701 pin 21 when the turntable is rotating?
No
Check the SWM3 and the wiring from the IC701 pin 21 to the SWM3.
Yes
Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Check IC2 pin26 the periphery.
Yes
IC701 defective.

• When turntable fails to move.


Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Is L output from the IC2 pin 26 during SEC when the disc skip switch is pressed?
No
Check the wiring of IC2 pin 26.
OK
IC2 defective.
Yes
Check turntable motor and turntable mechanism.

• When the CD tray fails to open or close.

Is there following voltage input in specific state of IC701 pin 19?
Open state: 0V
Close state: 0V
Intermediate state between open state and close state: 4.3V

No → Check the OPEN CLOSE SW and the wiring from the IC701 pin 19 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC91 is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25.

OK ↓

IC2 defective.

Yes ↓

Check the loading motor (M1) and the loading mechanism.

• The CD function will not work.

The CD operating keys don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is in the PICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer IC701.

• The CD operating keys work.

Check the Focus - HF system.

↓

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

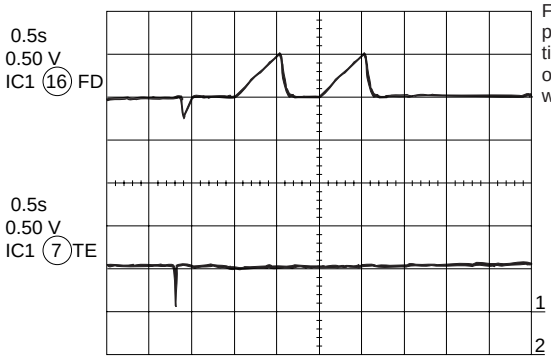
No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 44?

Yes → Check the area around IC3-CNP2.

No ↓

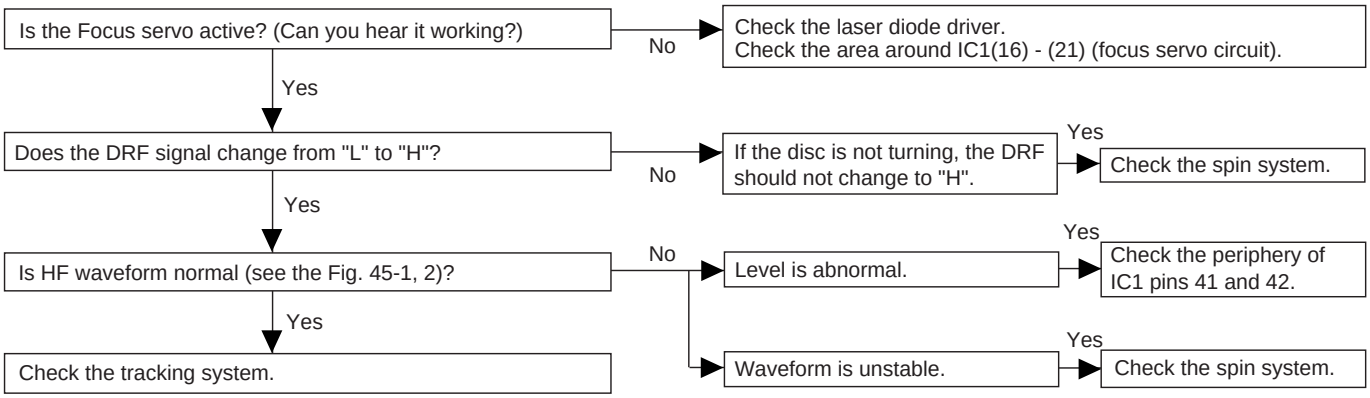
Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL), (52)(DAT) and (53)CE.



Focus search is performed two times when play operation is done without disc.

Figure 44

• Playback can only be performed when a disc is loaded.


Is the Focus servo active? (Can you hear it working?)
No
Check the laser diode driver.
Check the area around IC1(16) - (21) (focus servo circuit).
Yes
Does the DRF signal change from "L" to "H"?
No
If the disc is not turning, the DRF should not change to "H".
Yes
Check the spin system.
Yes
Is HF waveform normal (see the Fig. 45-1, 2)?
No
Level is abnormal.
Yes
Check the periphery of IC1 pins 41 and 42.
Yes
Check the tracking system.
Waveform is unstable.
Yes
Check the spin system.

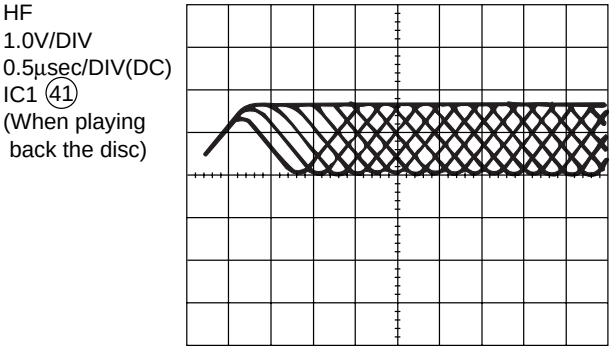


Figure 45-1

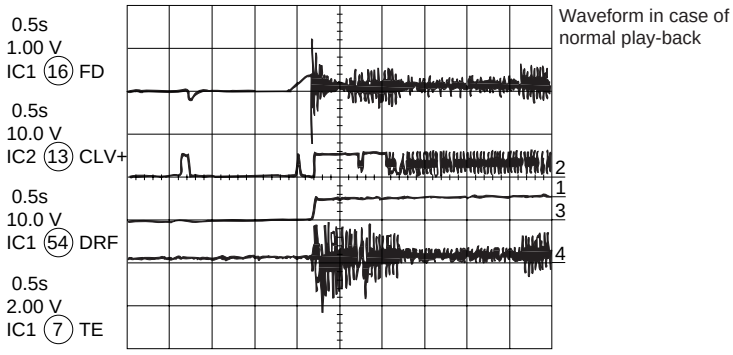
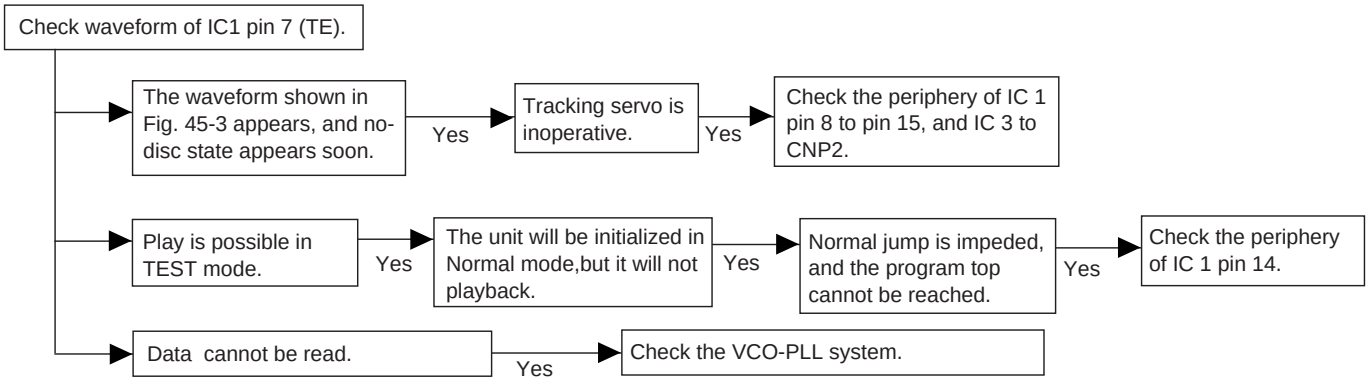


Figure 45-2

• Check the tracking system.


Check waveform of IC1 pin 7 (TE).
The waveform shown in Fig. 45-3 appears, and no-disc state appears soon.
Yes
Tracking servo is inoperative.
Yes
Check the periphery of IC 1 pin 8 to pin 15, and IC 3 to CNP2.
Play is possible in TEST mode.
Yes
The unit will be initialized in Normal mode,but it will not playback.
Yes
Normal jump is impeded, and the program top cannot be reached.
Yes
Check the periphery of IC 1 pin 14.
Data cannot be read.
Yes
Check the VCO-PLL system.

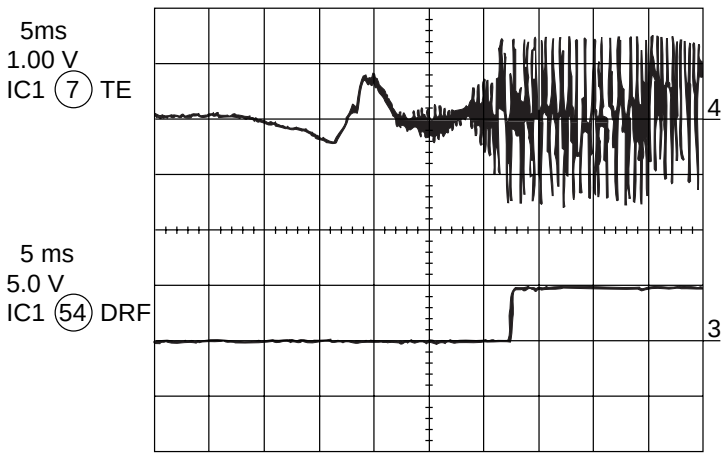


Figure 45-3

• Checking the spin system.

Play operation is performed without disc.

Yes

The turntable rotates a little. — Yes → The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed. — Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC3 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read. — Yes → Check PDO waveform (Fig. 46).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.

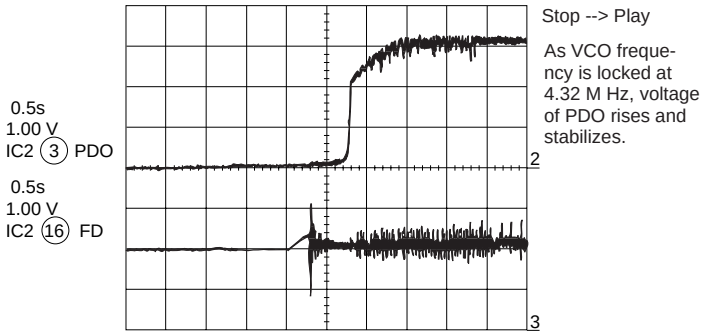


Figure 46

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). — No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

FUNCTION TABLE OF IC

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	NC	No connect.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHiLA9241M/-1:Servo Amp.(LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

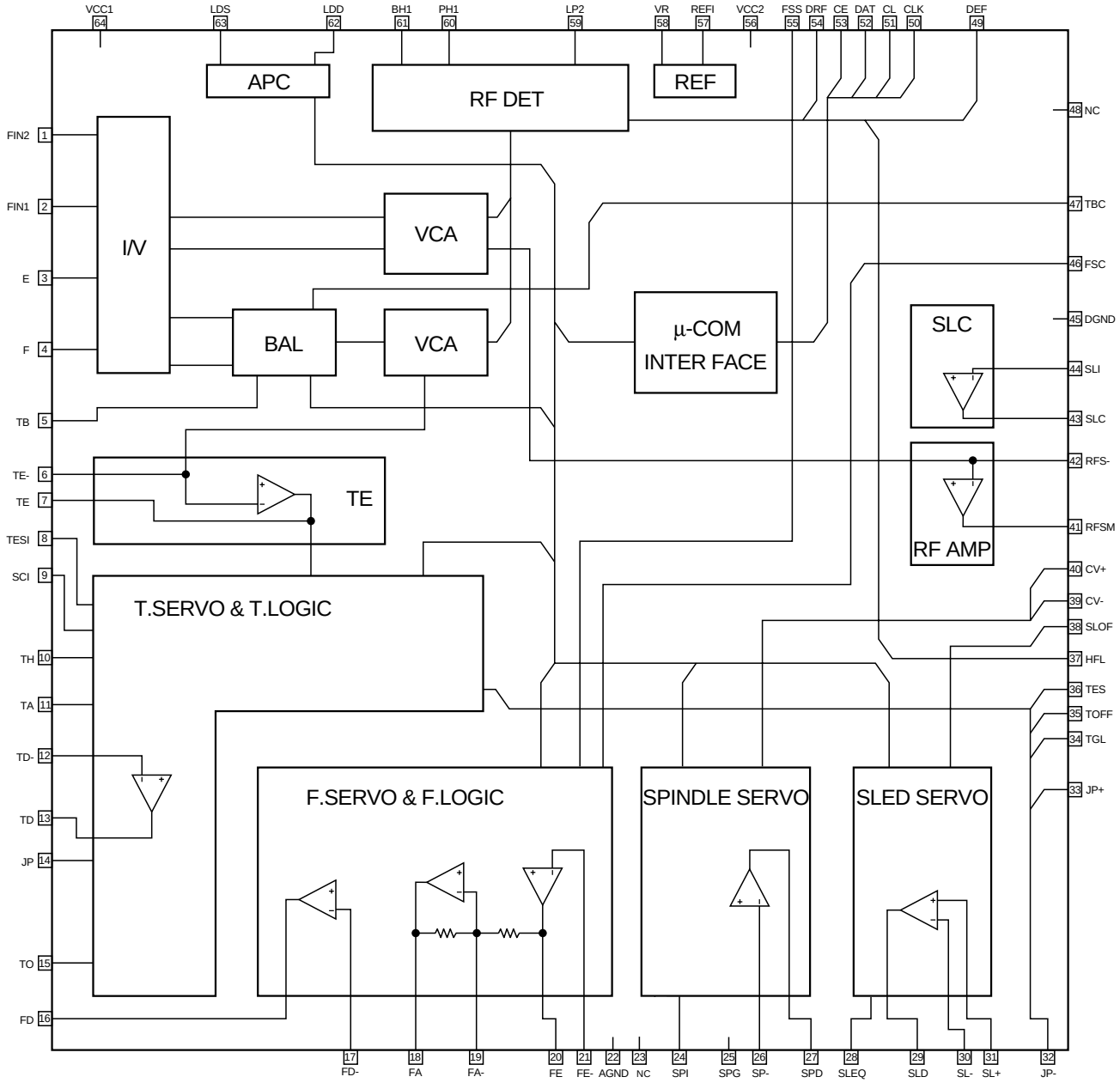


Figure 48 BLOCK DIAGRAM OF IC

IC2 VHiLC78631E-1: Servo/Signal Control (LC78631E) (1/2)

Pin No.	Terminal Name	Input/Output	Function	
1*	VPDO	Output	Variable pitch PLL charge pump output.	
2	PDO2	Output	Double-speed and mode playback PLL charge pump output.	
3	PDO1	Output	Normal-speed mode playback PLL charge pump output.	
4	AVSS	—	Analog system ground. Normally 0V.	
5	FR	—	Built-in VCO frequency range setting resistor connection.	
6	AVDD	—	Analog system power supply.	
7	ISET	—	PDO1 and PDO2 output current setting resistor connection.	
8	TAI	Input	Test input. A pull-down resistor is built in.	
9	EFMO	Output	EFM signal output.	
10	VSS	—	Digital system ground. Normally 0V.	
11	EFMI	Input	EFM signal input.	
12	TEST1	Input	Test input. A pull-down resistor is built in.	
13,14	CLV+, CLV-	Output	Spindle servo control output. CLV+ outputs a high level for acceleration, and CLV-outputs a high level for deceleration.	
15	V/P	Output	Rough servo/phase control automatic switching monitor output. A high-level output indicates rough servo, and a low-level output indicates phase control.	
16,17	TEST2, TEST1	Input	Test input. A pull-down resistor in built in.	
18*	P4	Input/Output	I/O port.	
19	HFL	Input	Track detection signal input. This is a Schmitt input.	
20	TES	Input	Tracking error signal input. This is a Schmitt input.	
21*	PCK	Output	EFM data playback bit clock monitor. Outputs 4.3218 MHz when the phasw is locked.	
22*	FSEO	Output	Synchronization signal detection output. Output a high level when the synchronization signal detected from EFM signal matches the internally generated synchronization signal.	
23	TOFF	Output	Tracking off output.	
24	TGL	Output	Tracking gain switching output. Increase the gain when this pin outputs a low level.	
25*	THLD	Output	Tracking hold output.	
26	TEST4	Input	Test input. A pull-down resistor is built in.	
27	VDD	—	Digital system power supply.	
28,29	JP+, JP-	Output	Track jump output. JP+ outputs a high level both for acceleration during outward direction jumps and for deceleration during inward direction jumps. JP- outputs a high level both for acceleration during inward direction jumps and for deceleration during outward direction jumps.	
30*,31*	SLD+, SLD-	Output	Slide output. This pin can be set to 1 of 4 levels by commands sent from the system control microprocessor.	
32	EMPH	Output	De-emphasis monitor. A high level indicates that disc requlring de-emphasis is being played.	
33*	P5	Input/Output	I/O port.	
34*	LRCKO	Output	Digital filter outputs	LR clock output.
35*	DFLRO	Output		LR data output. The digital filters can be turned off with the DFOFF command.
36*	DACKO	Output		Bit clock output.
37*	CONT1	Output	Output port.	
38	P0/DFCK	Input/Output	I/O port or digital filter bit clock input.	
39	P1/DFIN	Input/Output	I/O port or digital filter data input.	
40	P2	Input/Output	I/O port. Used as the de-emphasis filter on/off switching pin in anti shock mode.	
41	P3/DFLR	Input/Output	Port output or digital fllter LR clock input.	
42	LRSY	Output	ROMXA pins	LR clock output.
43	CK2	Output		Bit clock output. The polarity can be inverted with the CK2CON command.
44	ROMXA	Output		Interpolated data output. Data that has been interporated can be output by issuing the ROMXA command.
45	C2F	Output		C2 flag output.
46	MUTEL	Output	One-bit D/A converter pins	Left channel mute output.
47	LVDD	—		Left channel power supply.
48	LCHP	Output		Left channel P output.
49	LCHN	Output		Left channel N output.
50	LVSS	—		Left channel ground. Normally 0V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Note: The same potential must be to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

Unused input ports of general-purpose input/output ports (I/O) must be connected to 0V or set output port.

IC2 VHiLC78631E-1: Servo/Signal Control (LC78631E) (2/2)

Pin No.	Terminal Name	Input/Output	Function
51	XVSS	—	Crystal osccillator garound. Normaly 0v.
52	XOUT	Output	16.9344 MHz crystal oscillator connections. Use a 33.8688 MHz Crystal oscillator for quadspeed playback.
53	XIN	Input	16.9344 MHz crystal oscillator connections. Use a 33.8688 MHz Crystal oscillator for quadspeed playback.
54	XVDD	—	Crystal oscillator power supply.
55	RVSS	—	One-bit D/A converter pins: Right channel ground. Normaly 0V.
56	RCHN	Output	One-bit D/A converter pins: Right channel N output.
57	RCHP	Output	One-bit D/A converter pins: Right channel P output.
58*	RVDD	—	One-bit D/A converter pins: Right channel power supply.
59*	MUTER	Output	One-bit D/A converter pins: Right channel mute output.
60*	SBSY	Output	Subcode block synchronization signal output.
61*	EFLG	Output	C1 and C2 error correction state monitor.
62*	PW	Output	Subcode P,Q,R,S,T,U and W output.
63*	SFSY	Output	Subcode frame synchronization signal output. Falls when the subcode output goes to the standby state.
64	SBCK	Input	Subcode readout clock input. This is a Schmitt input.
65*	DOUT	Output	Digital output.
66*	FSX	Output	Outputs a 7.35 kHz synchronization signal generated by dividing the crystal oscillator frequency.
67	WRQ	Output	Subcode Q outputstandby output.
68	RWC	Input	Read/write control input.
69	SQOUT	Output	Subcode Q output.
70	COIN	Input	Input for commands from the control microprocessor.
71	CQCK	Input	Command input acousition clock. Also used as the SQOUT subcode readout clock input. This is a Schmitt input.
72	RES	Input	Chip reset input. This pin must be set low temporary when power is first applled.
73*	TESEF	Output	
74*	CONT2	Output	Output port.
75	16M	Output	16.9344 MHz output. 33.8688 MHz output in 4x playback mode.
76	4.2M	Output	4.2336 MHz output.
77	TEST5	Input	Test input. A pull-down resistor built in.
78	CS	Input	Chip select input. A pull-down resistor is built in.
79	DEFI	Input	Defect detection signal input.
80	VCOC	Input	Variable pitch VCO control input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Note: The same potential must be to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).
Unused input ports of general-purpose input/output ports (I/O) must be connected to 0V or set output port.

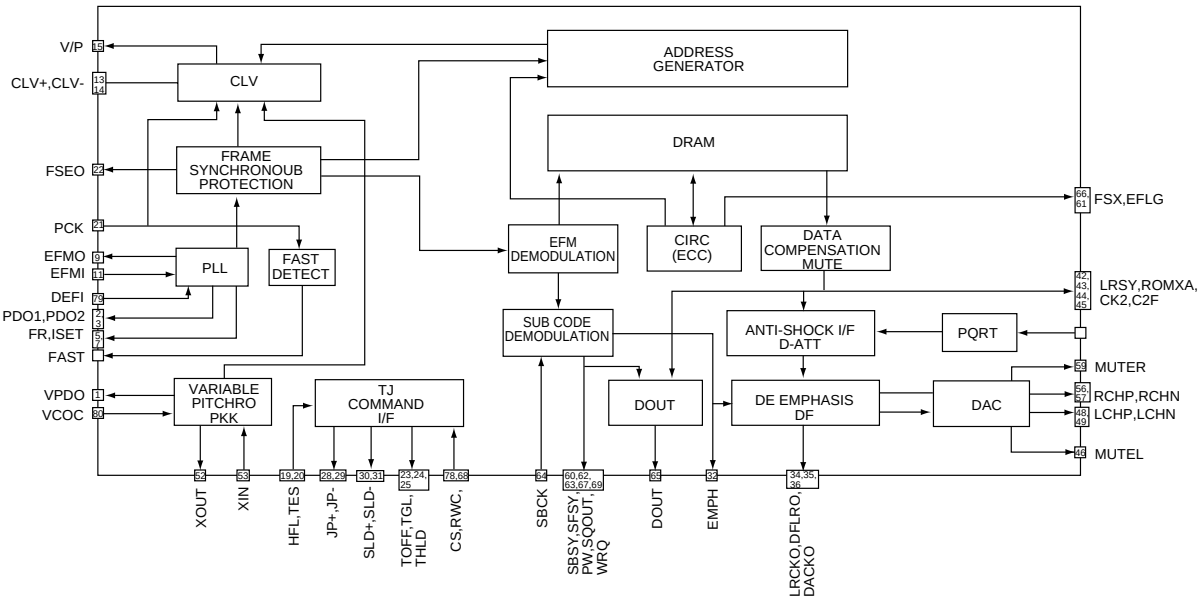
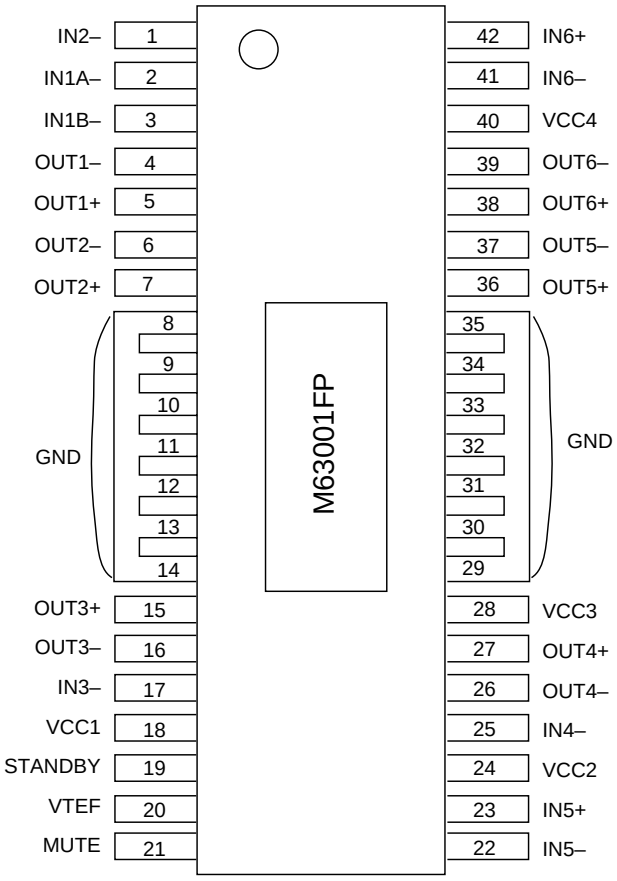


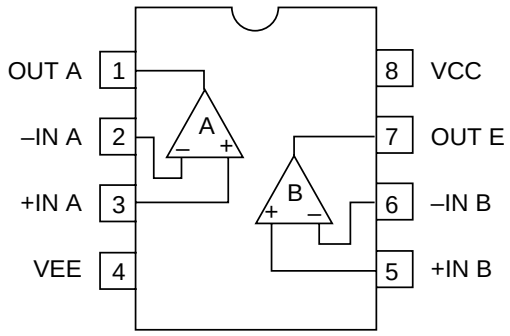
Figure 50 BLOCK DIAGRAM OF IC

IC3 VHiM63001FP-1: Focus/Tracking/Spindle/Sled Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36	OUT5+	CH5 non-inverted output.
37	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.



IC562,563 VHiKiA4558P-1: Ope Amp. (KIA4558P)



IC601 VHiM62439SP-1: Audio Processor (M62439SP)

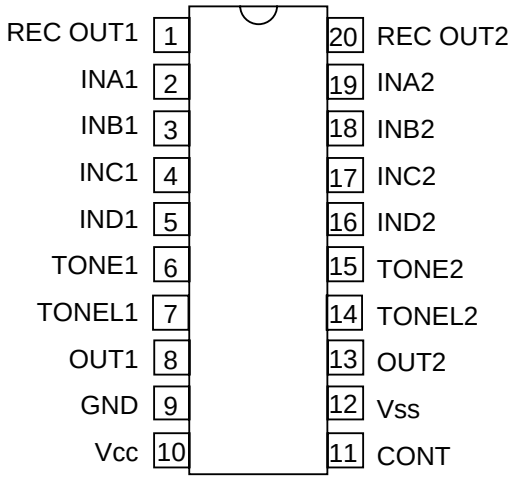


Figure 51 BLOCK DIAGRAM OF IC

IC701 RH-iX0314AWZZ: System Control Microcomputer (IX0314AW) (1/3)

Pin No.	Terminal Name	Input/Output	Function	
1	VDD	—	(+) POWER SUPPLY	
2*	P37	Input/Output	Port 3 8-bit I/O port Can be specified for input or output in 1-bit units. Can directly drive LEDs. When used as an input port pin, an on-chip pull-up resistor can be used through software. A pull-down resistor can be connected in 1-bit units by mask option.	
3	P36/BUZ	Input/Output		
4	P35/PCL	Input/Output		
5	P34/TI2	Input/Output		
6	P33/TI1	Input/Output		
7	P32/TO2	Input/Output		
8	P31/TO1	Input/Output		
9	P30/TO0	Input/Output		
10	$\overline{\text{RESET}}$	Input	RESET	
11	X2	Output	MAIN CLOCK	
12	X1	Input	MAIN CLOCK	
13	Vpp	—	POWER SUPPLY TERMINAL	
14*	XT2	—	OPEN	
15	P04/XT1 (Note 1)	Input	Port 0 5-bit I/O port	Input only
16	VDD	—	(+) POWER SUPPLY	
17	P27/$\overline{\text{SCK0}}$	Input/Output	Port 2 8-bit I/O port Can be specified for input or output in 1-bit units. When used as an input port pin, an on-chip pull-up resistor can be used through software.	
18	P26/SO0/SB1	Input/Output		
19	P25/SI0/SB0	Input/Output		
20	P24/BUSY	Input/Output		
21	P23/STB	Input/Output		
22	P22/$\overline{\text{SCK1}}$	Input/Output		
23	P21/SO1	Input/Output		
24	P20/SI1	Input/Output		
25	AVss	—	ANALOG GROUND	
26	P17/ANI7	Input/Output	Port 1 8-bit I/O port Can be specified for input or output in 1-bit units. When used as an input port pin, an on-chip pull-up resistor can be used through software. (Note 2)	
27	P16/ANI6	Input/Output		
28	P15/ANI5	Input/Output		
29	P14/ANI4	Input/Output		
30	P13/ANI3	Input/Output		
31	P12/ANI2	Input/Output		
32	P11/AN11	Input/Output		
33	P10/AN10	Input/Output		
34	AVDD	—	ANALOG VDD	
35	AVREF	—	ANALOG REF VOLTAGE	
36	P03/INTP3	Input/Output	Port 0 5-bit I/O port	Can be specified for input or output in 1-bit units. When used as an input port pin, an on-chip pull-up resistor can be used through software.
37	P02/INTP2	Input/Output		
38	P01/INTP1	Input/Output		
39	P00/INTP0TI0	Input		Input only.
40	Vss	—	GROUND VOLTAGE	
41	P74	Input/Output	Port 7 5-bit N-ch open-drain I/O port Can be specified for input or output in 1-bit units. Can directly drive LEDs. A pull-up resistor can be connected in 1-bit units by mask options.	
42	P73	Input/Output		
43	P72	Input/Output		
44	P71	Input/Output		
45	P70	Input/Output		
46	VDD	—	(+) POWER SUPPLY	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Notes: 1. When the P04/XT1 pins is used as an input port pin, bit 6 (FRC) of the processor clock control register (PCC) must be set to 1. (At this time, do not use the feedback resistor of the subsystem clock oscillator circuit.)

2. When the P10/ANI0 through P17/ANI7 pins are used as the analog input lines of the A/D converter, be sure to place the port 1 in the input mode. In this case, the pull-up resistors are automaticaly unused.

IC701 RH-iX0314AWZZ: System Control Microcomputer (IX0314AW) (2/3)

Pin No.	Terminal Name	Input/Output	Function
47	P127/FIP52	Input/Output	Port 12 8-bit P-ch open-drain high-voltage I/O port Can be specified for input or output in 1-bit units. Can directly drive LEDs. A pull-down resistor can be connected in 1-bit units . (whenther VLOAD or Vss is connected can be specified in 4-bit units.)
48	P126/FIP51	Input/Output	
49	P125/FIP50	Input/Output	
50	P124/FIP49	Input/Output	
51	P123/FIP48	Input/Output	
52	P122/FIP47	Input/Output	
53	P121/FIP46	Input/Output	
54	P120/FIP45	Input/Output	
55	P117/FIP44	Input/Output	Port 11 8-bit P-ch open-drain high-voltage I/O port Can be specified for input or output in 1-bit units. Can directly drive LEDs. A pull-down resistor can be connected in 1-bit units. (whenther VLOAD or Vss is connected can be specified in 4-bit units.)
56	P116/FIP43	Input/Output	
57	P115/FIP42	Input/Output	
58	P114/FIP41	Input/Output	
59*	P113/FIP40	Input/Output	
60*	P112/FIP39	Input/Output	
61	P111/FIP38	Input/Output	
62*	P110/FIP37	Input/Output	
63	P107/FIP36	Input/Output	Port 10 8-bit P-ch open-drain high-voltage I/O port Can be specified for input or output in 1-bit units. Can directly drive LEDs. A pull-down resistor can be connected in 1-bit units. (whenther VLOAD or Vss is connected can be specified in 4-bit units.)
64	P106/FIP35	Input/Output	
65	P105/FIP34	Input/Output	
66	P104/FIP33	Input/Output	
67	P103/FIP32	Input/Output	
68	P102/FIP31	Input/Output	
69	P101/FIP30	Input/Output	
70	P100/FIP29	Input/Output	
71	P97/FIP28	Output	Port 9 8-bit P-ch open-drain high-voltage output port Can directly drive LEDs. A pull-down resistor can be connected in 1-bit units by mask option. (whenther VLOAD or Vss is connected can be specified in 4-bit units.)
72	P96/FIP27	Output	
73	P95/FIP26	Output	
74	P94/FIP25	Output	
75	P93/FIP24	Output	
76	P92/FIP23	Output	
77	P91/FIP22	Output	
78	P90/FIP21	Output	
79	VLOAD	—	FL DRIVER (–) POWER SUPP, –30V
80	P87/FIP20	Output	Port 8 2-bit P-ch open-drain high-voltage output port Can directly drive LEDs. A pull-down resistor can be connected in 1-bit units by mask option. (whenther VLOAD or Vss is connected can be specified in 4-bit units.)
81	P86/FIP19	Output	
82	P85/FIP18	Output	
83	P84/FIP17	Output	
84	P83/FIP16	Output	
85	P82/FIP15	Output	
86	P81/FIP14	Output	
87	P80/FIP13	Output	
88-100	FIP20-FIP0	Output	FL DISPLAY SEGMENT DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0314AWZZ: System Control Microcomputer (IX0314AW)(3/3)

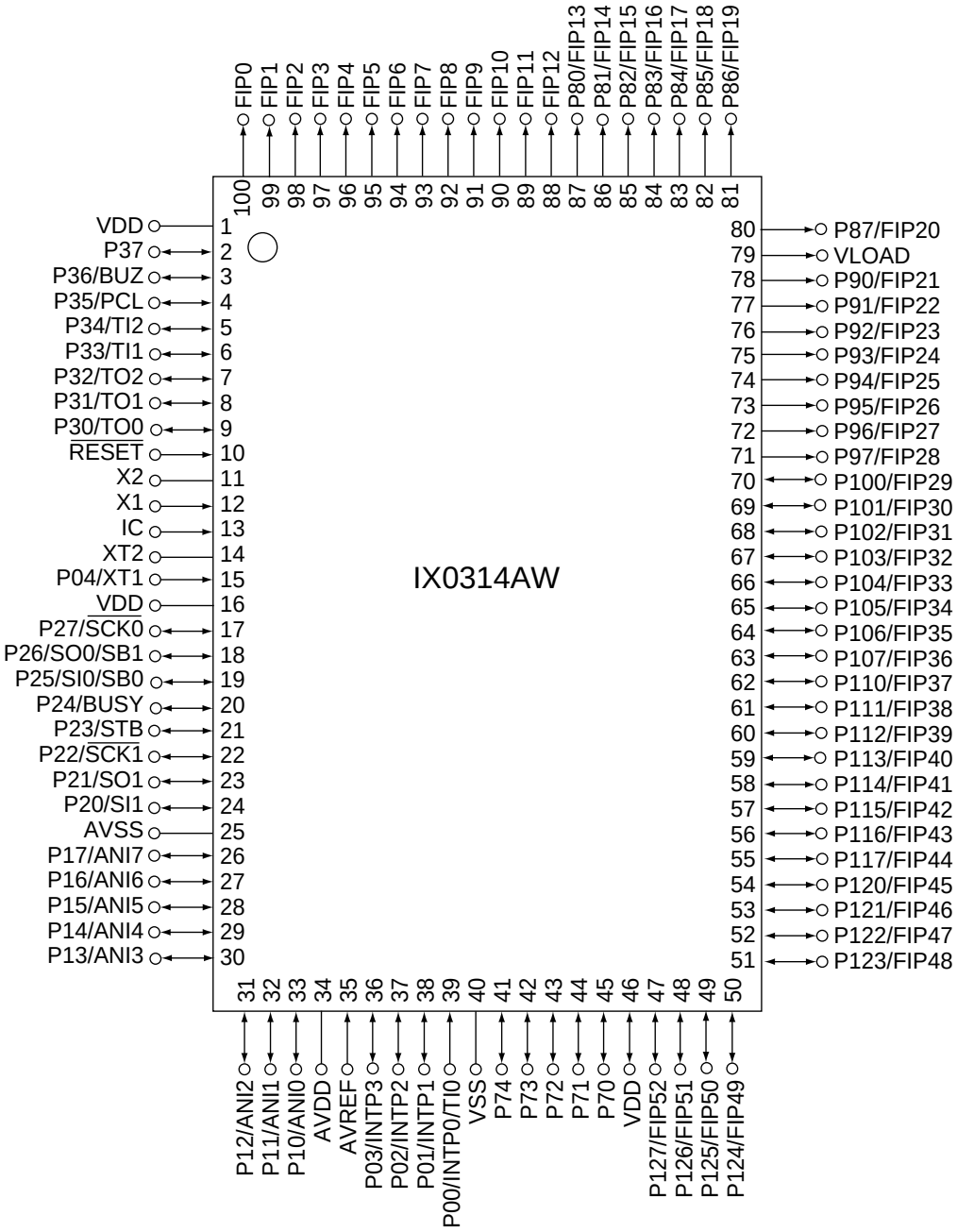


Figure 54 BLOCK DIAGRAM OF IC

ICV1 RH-iX0313AWZZ: MPEG Controller (IX0313AW)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	P50	VOCAL CANCEL	Output	Vocal cancel
2	P51	K_C_DATA	Output	Key control IC data
3	P52	K_C_CLOCK	Output	Key control IC clock
4	P53	K_C_STROBE	Output	Key control IC strobe
5	P54	KEY CONT.	Output	Key control
6	P55	CD-SOL	Output	CD changer solenoid control
7,8	P56, P57	NO USE	Output	Joint 10 kohm to GND
9	V_{SS0}	VSS0	—	Ground voltage
10	V_{DD0}	VDD0	—	VDD
11	P30	CD-LD M+	Output	CD changer motor control
12	P31	CD-LD M-	Output	CD changer motor control
13	P32	MO_SPEED	Output	CD changer motor speed control
14	P33	NO USE	Output	Joint 10 kohm to GND
15	P34	POWER_MPEG	Output	MPEG power supply control
16,17	P35, P36	NO USE	Output	Joint 10 kohm to GND
18	P20	MDI	Input	Comunicate to system µcon DI
19	P21	MDO	Output	Comunicate to system µcom DO
20	P22	MCK	Input	Comunicate to system µcom CLK
21	P23	NO USE	Output	Joint 10 kohm to GND
22	P24	MBUSY	Output	Comunicate to ststem µcom MBUSY
23	P25/ASCK0	NO USE	Output	Joint 10 kohm to GND
24	V_{DD1}	VDD1	—	VDD
25	A_{VSS}	AVSS	—	Ground
26-33	P17-P10	NO USE	Output	Joint 10 kohm to GND
34	A_{VREF}	AVREF	—	Conect to VDD
35	A_{VDD}	AVDD	—	Conect to VDD
36	$\overline{\text{RESET}}$	$\overline{\text{RESET}}$	Input	Common use DSP_RESET
37*	XT2	XT2	—	Open
38	XT1	XT1	—	Conect to VDD
39	IC	IC	—	Conect to ground
40	X2	X2	Output	Main clock
41	X1	X1	Input	Main clock
42	V_{SS1}	VSS1	—	Ground voltage
43	INTP0	INT	Output	Interrupt requset
44	INTP1	SBUSY	Input	Comunicate to system µcom SBUSY
45,46	P02, P03	NO USE	Output	Joint 10 kohm to GND
47-50	P70-P73	NO USE	Output	Joint 10 kohm to GND
51	P74	$\overline{\text{MPEG RESET}}$	Output	MPEG decoder reset
52	BUZ	$\overline{\text{HCS}}$	Output	Chip select
53	P64/RD	$\overline{\text{HRD}}$	Output	Reas strobe
54	$\overline{\text{WR}}$	$\overline{\text{HWR}}$	Output	Write strobe
55	$\overline{\text{WAIT}}$	$\overline{\text{HDAK}}$	Input	Bus cycle acknowledge
56	ASTB	HA	Output	Adress strobe
57-64	AD0-AD7	HD0-HD7	Input/Output	Host parallel intertface

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICV2 VHiD61012GC-1: MPEG Decoder (D61012GC) (1/3)

Pin No.	Terminal Name	Input/Output	Function
1	V_{DD}	—	Digital supply.
2-5	HD7-HD4	Input/Output	Host data bus. HD7 = MSB, HDO = LSB. Internally pulled down. Pull down resistance = approx. 42 kohms. Can quit this pull down with the HD_PD_OFF register (74H, bo).
6	GND	—	Ground
7-10	HD3-HD0	Input/Output	Host data bus. HD7 = MSB, HD0 = LSB Internally pulled down. Pull down resistance is approx. 42 kohms. Can quit this pull down with the HD_PD_OFF register (74H, bo).
11,12	GND	—	Ground
13	X1	Input	To connect a 27 MHz oscillator. Open when not using.
14	X2	Input	To connect a 27 MHz oscillator or input 27 MHz clock. Set the clock at CKSEL terminal. Signal input at 3.3 Vp-p.
15	V_{DD}	—	Digital supply.
16	CKSEL	Input	Select a clock to be input to X2 terminal. Use CKSEL = High: oscillator. CKSEL = Low : 27 MHz clock input.
17	V_{DD}	—	Digital supply.
18	GND	—	Ground
19	$\overline{HCS}$	Input	Chip select signal.
20	$\overline{HRD}$	Input	Read strobe signal.
21	$\overline{HWR}$	Input	Write strobe signal.
22	HA	Input	Address / address strobe signal.
23	HSELA	Input	Host interface select signal. Select a serial interface or an 8-bit parallel interface. HSELX = High: parallel interface. HSELX = Low: serial interface.
24	HSELA	Input	Host interface mode select signal. Select multiplex mode or separate mode. HSELA = High: multiplex mode. HSELA = Low: separate mode. Fixed low when using serial interface.
25	V_{DD}	—	Digital supply.
26	GND	—	Ground
27	$\overline{RESET}$	Input	Reset terminal.
28	$\overline{HDAK}$	Output	Host bus acknowledge signal.
29	INT	Output	Interrupt signal.
30	GND	—	Ground
31	AUCLK	Input	Audio clock (16.9344 MHz).
32	AUBCK	Output	Audio bit clock.
33	AULRCK	Output	Audio L/R clock.
34*	AUEMPH	Output	Audio emphasis signal.
35	AUDO	Output	Audio data output.
36	V_{DD}	—	Digital supply.
37	GND	—	Ground
38-42	MA8-MA4	Output	DRAM address bus. MA8 = MSB, MAO = LSB.
43	GND	—	Ground
44	V_{DD}	—	Digital supply.
45-48	MA3-MA0	Output	DRAM address bus. MA8 = MSB, MA0 = LSB.
49	$\overline{MRAS}$	Output	DRAM low address strobe signal.
50	GND	—	Ground
51	V_{DD}	—	Digital supply.

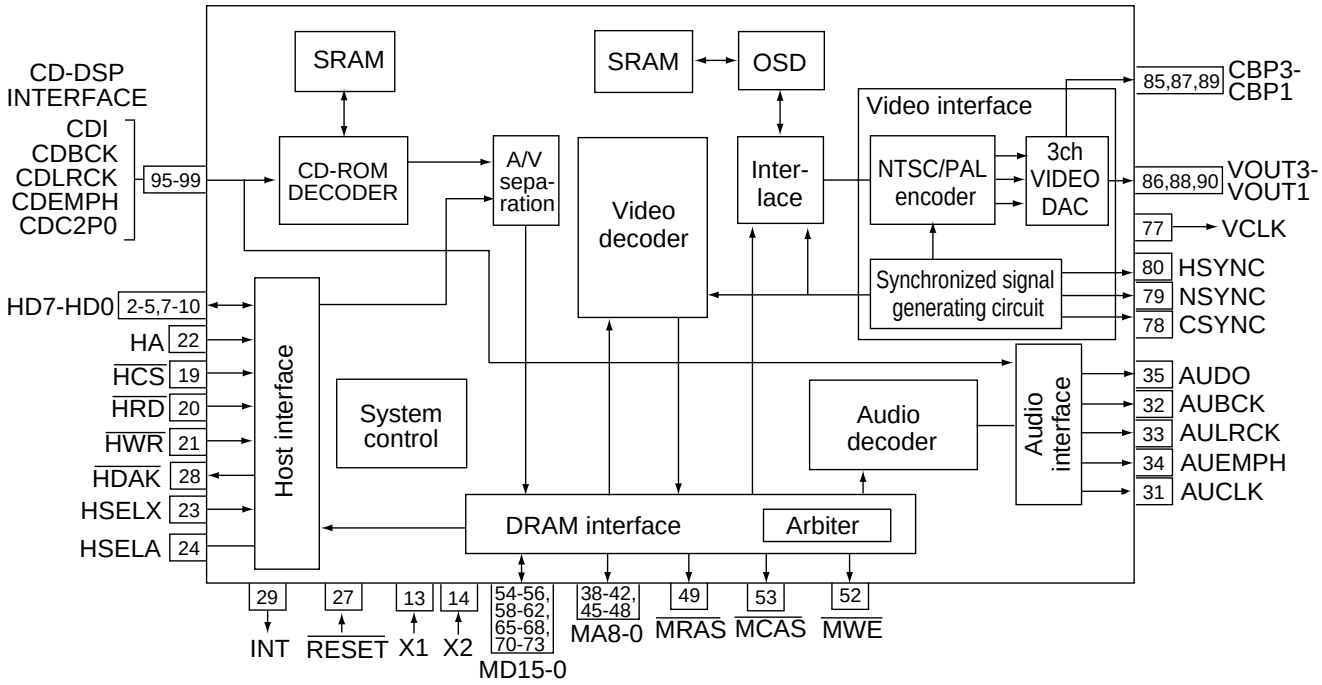
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICV2 VHiD61012GC-1: MPEG Decoder (D61012GC) (2/3)

Pin No.	Terminal Name	Input/Output	Function
52	$\overline{\text{MWE}}$	Output	DRAM write enable signal.
53	$\overline{\text{MCAS}}$	Output	DRAM column address strobe signal.
54-56	MD7-MD5	Input/Output	DRAM data bus. MD15 = MSB, MD0 = LSB. Internally pulled down. Pull down resistance is approx. 42 kohms. Can quit this pull down with the MD_PD_OFF register (74H, b1).
57	GND	—	Ground
58-62	MD4-MD0	Input/Output	TDRAM data bus. MD15 = MSB, MD0 = LSB. Internally pulled down. Pull down resistance is approx. 42 kohms. Can quit this pull down with the MD_PD_OFF register (74H, b1).
63	VDD	—	Digital supply.
64	GND	—	Ground
65-68	MD15-MD12	Input/Output	DRAM data bus. MD15 = MSB, MD0 = LSB. Internally pulled down. Pull down resistance is approx. 42 kohms. Can quit this pull down with the MD_PD_OFF register (74H, b1).
69	GND	—	Ground
70-73	MD11-MD8	Input/Output	DRAM data bus. MD15 = MSB, MD0 = LSB. Internally pulled down. Pull down resistance is approx. 42 kohms. Can quit this pull down with the MD_PD_OFF register (74H, b1).
74	GND	—	Ground
75	VDD	—	Digital supply.
76	GND	—	Ground
77*	VCLK	—	Not used
78*	CSYNC	Output	Synchronized signal generating signal
79*	NSYNC	Output	Synchronized signal generating signal
80*	HSYNC	Output	Synchronized signal generating signal
81*,82*	—	—	Not used
83	VDD	—	Digital supply.
84	AVDD	—	Analog power supply
85	CBP1	Output	3CH Video D/A signal
86	VOUT1	Output	3CH Video D/A signal
87	CBP2	Output	3CH Video D/A signal
88*	VOUT2	Output	3CH Video D/A signal
89	CBP3	Output	3CH Video D/A signal
90*	VOUT3	Output	3CH Video D/A signal
91	AGND	—	Analog power supply
92	VDD	—	Digital supply.
93*	—	—	Not used
94	GND	—	Ground
95	CDC2PO	Input	CD data input
96	CDEMPH	Input	CD data input
97	CDLRCK	Input	CD data input
98	CDBCK	Input	CD data input
99	CDI	Input	CD data input
100	GND	—	Ground

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICV2 VHiD61012GC-1: MPEG Decoder (D61012GC) (3/3)



ICV4 VHiNJM2267M-1: Video Operation Amp. (NJM2267M)

Pin No.	Terminal Name	Function
1	Clamp input terminal	Input of 1.9 V clamp, 1 Vp-p composite or Y-signal
2	GND	Ground
3	Sag correction terminal	Able to obtain an output without any sag by feeding back the sag, generated from output coupling C, using the external C (see block diagram). When not using the sag correction terminal, connect directly to the pin 4.
4,5	Output terminal	6 dB amplifier output. Able to drive 75? line.
6	Sag correction terminal	Able to obtain an output without any sag by feeding back the sag, generated from output coupling C, using the external C (see block diagram). When not using the sag correction terminal, connect directly to the pin 5.
7	V+	Power source
8	Clamp input terminal	Input of 1.9 V clamp, 1 Vp-p composite or Y-signal.

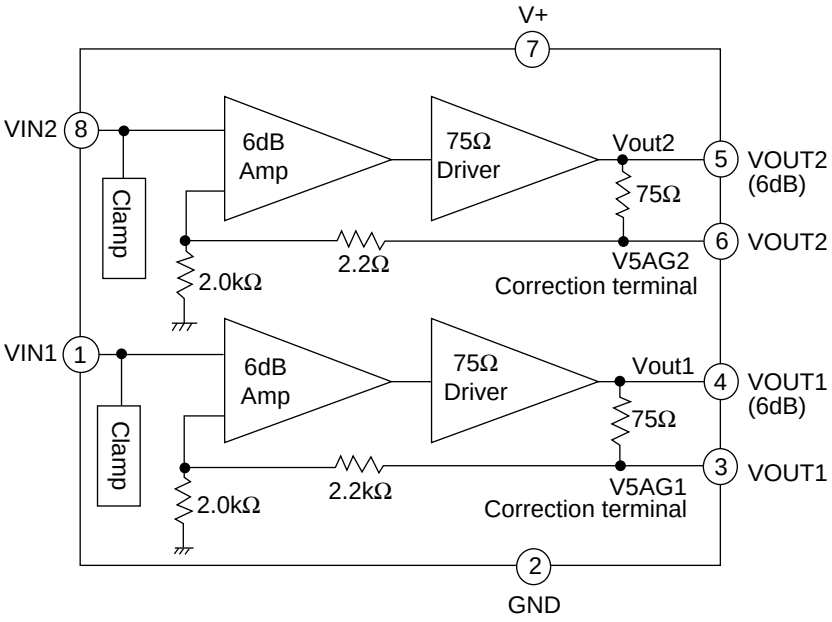


Figure 58 BLOCK DIAGRAM OF IC

ICV3 VHiSDM4260C-1: DRAM (SDM4260C)

Pin No.	Port Name	Function
1	VCC	Power supply
2-10	I/O0-I/O7	Data input/output
11*,12*	NC	Not used
13	$\overline{WE}$	Read/write enable
14	$\overline{RAS}$	Row address strobe
15*	NC	Not used
16-19	A0-A3	Address input (row/refresh: A0 to A3) (Column: A0 to A3)
20	VCC	Power supply
21	VSS	Ground
22-26	A4-A8	Address input (row/refresh: A4 to A8) (Column: A4 to A8)
27	$\overline{OE}$	Output enable
28,29	$\overline{UCAS}$, $\overline{LCAS}$	Column address strobe
30*	NC	Not used
31-34	I/O8-I/O11	Data input/output
35	VSS	Ground
36-39	I/O12-I/O15	Data input/output
40	VSS	Ground

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

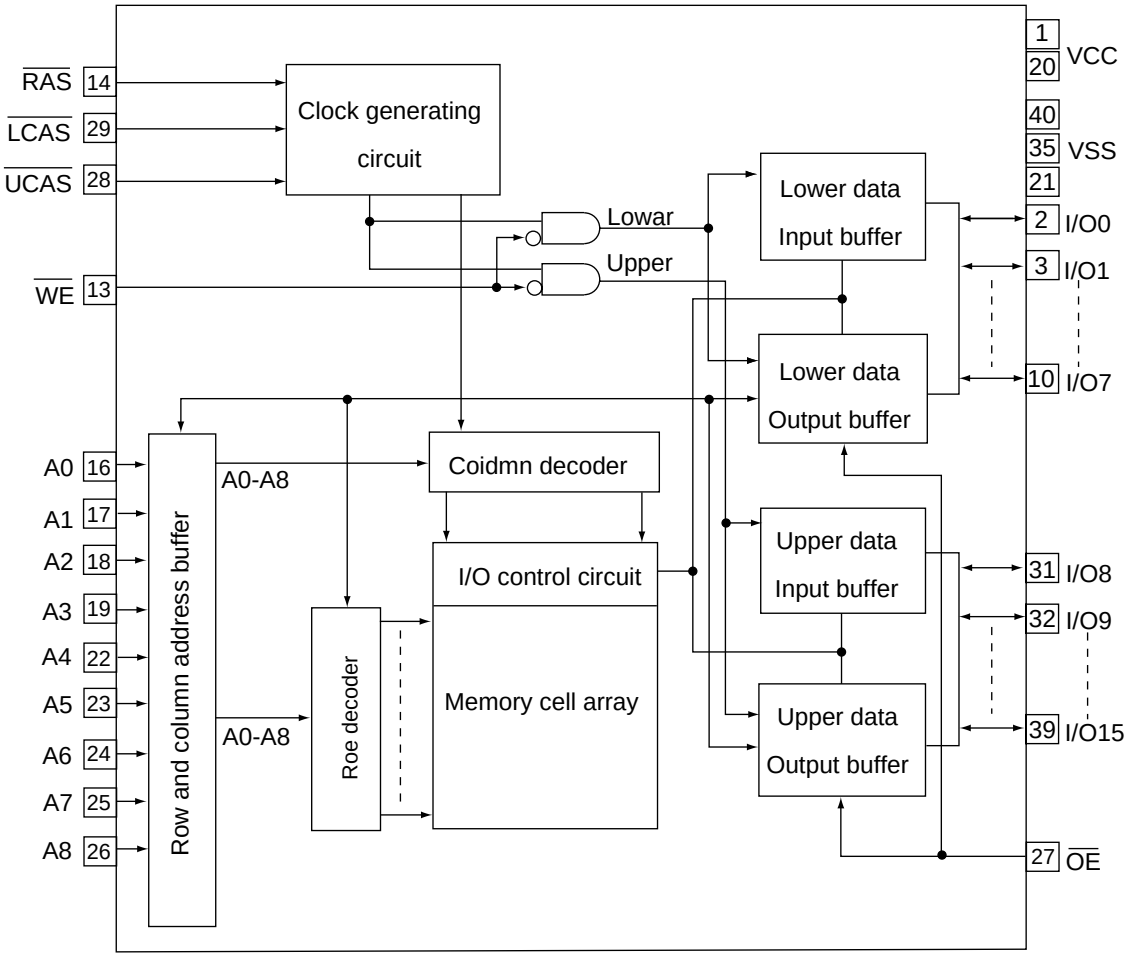


Figure 59 BLOCK DIAGRAM OF IC

ICK1 VHiM65845FP-1: MIC AMP (IM65845FP)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	Mic 1 input	MIC 1 IN	Input	Mic 1 is connected.
2	ALC 1 contrl	ALC 1	—	ALC attack recovery time setting C is connected.
3	Mic 1 negative feedback input	MIC 1 NFIN	Input	Mic 1 amp. gain is set through feedback circuit.
4	Mic 1 output	MIC 1 OUT	Output	Mic 1 amp. gain is set through feedback circuit.
5	Mic 1 volume input	MIC 1 VOLIN	Input	Input after attenuation through extemally provided mic volume.
6	Mic 2 input	MIC 2 IN	Input	Mic 2 is connected.
7	ALC 2 control	ALC 2	—	ALC attack recovery time setting C is connected.
8	Mic 2 negative feedback input	MIC 2 NFIN	Input	Mic 2 amp. gain is set through feedback circuit.
9	Mic 2 output	MIC 2 OUT	Output	Mic 2 amp. gain is set through feedback circuit.
10	Mic 2 volume input	MIC 2 VOLIN	Input	Input after attenuation through extemally provided mic volume.
11	Mic output	MIC OUT	Output	Mic 1/Mic 2 mixing output.
12	Low-pass filter 1 input	LPF 1 IN	Input	Prefilter before A/D conversion for digital echo.
13	Low-pass filter 1 output	LPF 1 out	Output	Prefilter before A/D conversion for digital echo.
14	A/D integrator input	AD IN TIN	Input	A/D converting integrator is composed, using externally provided C.
15	A/D integrator output	AD IN TOUT	Output	A/D converting integrator is composed, using externally provided C.
16	A/D control	AD CONT	—	Proper time constant of ADM system A/D conversion is determined.
17	Reference power output	REF	—	1/2 Vcc output, filter C is connected.
18	Grounding	GND	—	
19	Power	VCC	—	System reset.
20	D/A control	DACONT	—	Proper time constant of ADM system A/D converslon is determined.
21	D/A integrator input	DA IN TIN	Input	D/A converting integrator is composed, using externally provided C.
22	D/A integrator output	DA IN TOUT	—	D/A converting integrator is composed, using externally provided C.
23	Low-pass filter 2 input	LPF 2 IN	Input	Prefilter before D/A conversion for digital echo.
24	Low-pass filter 2 output	LPF 2 OUT	Output	Prefilter before D/A conversion for digital echo.
25	Echo volume input	ECHO VOL IN	Input	input after attenuation through extemally provided mic volume.
26	Rch line input	RLINE IN	Input	
27	Lch line input	LLINE IN	—	
28	Rch line output	RLINE OUT	Input	Mic system/Line system mixing output.
29	Lch line output	LLINE OUT	Output	Mic system/Line system mixing output.
30	Mic echo output	MIC ECHO OUT	Input	Mic original sound/Echo mixing output.
31	Mic Switch	MIC SW	Output	L;MIC OFF H;MIC ON
32	Clock	CLOCK	Input	CR oscillator;Oscillation buffer provided.
33	Audio Switch 1	AUD SW1	Output	Sound selection switch;Audio signal is setected by setting Audio switches 1 and 2 to L or H.
34	Audio Switch 2	AUD SW2	Input	Sound selection switch;Audio signal is setected by setting Audio switches 1 and 2 to L or H.
35	ALC operating voltage setting	VALC	Output	ALC operating voltage is set according to applied voltage.
36	Vocal cut filter	VCFIL	—	Frequency components lower than vocal range are slewed.

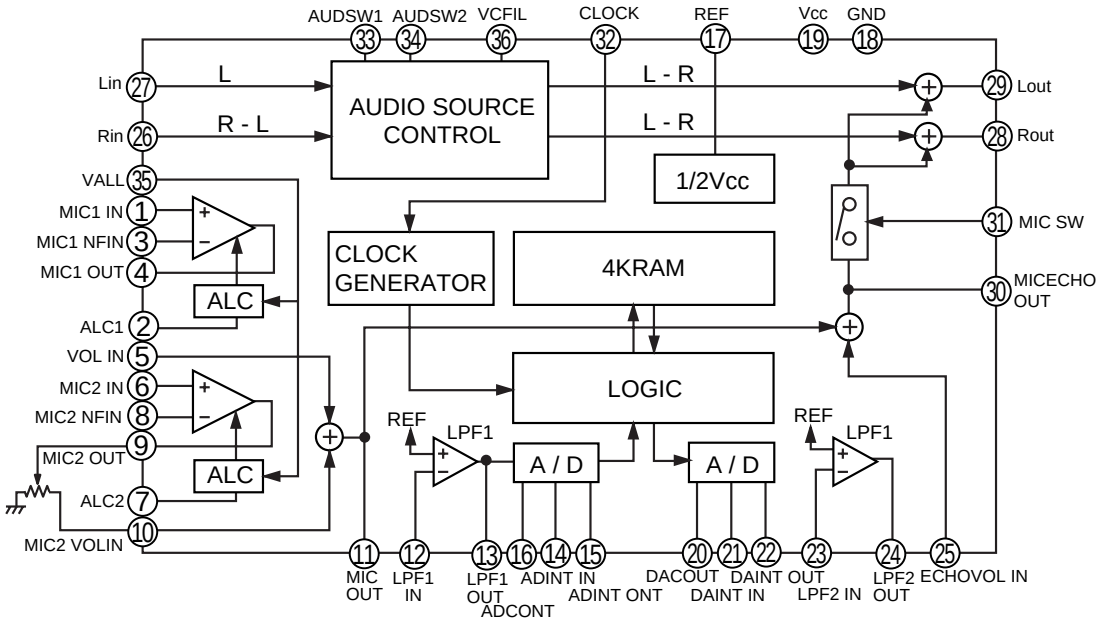


Figure 60 BLOCK DIAGRAM OF IC

ICK41 VHiM65840FP-1: MIC AMP (IM65840FP)(1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	A/D control	ADCONT	Input	To decide the time constant when the ADM system A/D conversion is applied.
2	D/A1 control	DA1CONT	Input	To decide the time constant when the ADM system D/A1 conversion is applied
3	D/A2 control	DA2CONT	Input	To decide the time constant when the ADM system D/A2 conversion is applied
4	TEST	TEST1	Input	L: Normal mode H: Test mode
5	Oscillator input	XIN	Input	16 MHz ceramic filter is connected.
6	Oscillator output	XOUT	Output	16 MHz ceramic filter is connected.
7	Data	DATA	Input	Serial bus Data input
8	Clock	CLOCK	Input	Serial bus Clock input
9	Strobe	STROBE	Input	Serial bus Strove input
10*	Test	TEST2	—	Open (not connect)
11*	Test	TEST3	—	Open (not connect)
12	Reference	REF	Output	1/2Vcc output Filter C is connected.
13	Ground	GND	Output	Not used
14	Power	VCC	Output	Open
15	Mix output	MIXOUT	Output	The button-controlled low-range signal and thru high-range signal is mixed.
16	Mix input	MIXIN	Input	The button-controlled low-range signal and thru high-range signal is mixed.
17	Low-pass filter 2 output	LPF2OUT	Output	Post-filter after D/A conversion for button control
18	Low-pass filter 2 input	LPF2IN	Input	Post-filter after D/A conversion for button control
19*	High-pass filter output	HPFOUT	Output	High-pass filter for high-range thru
20*	High-pass filter input	HPFIN	Input	High-pass filter for high-range thru
21	Low-pass filter 1 output	LPF1OUT	Output	Pre-filter before A/D conversion for button control
22	Low-pass filter 1 input	LPF1IN	Input	Pre-filter before A/D conversion for button control
23	A/D integrator input	ADINTIN	Input	A/D conversion integrator is composed by using externally provided C.
24	A/D integrator output	ADINTOUT	Output	A/D conversion integrator is composed by using externally provided C.
25	D/A1 integrator input	DA1INTIN	Input	D/A1 conversion integrator is composed by using externally provided C.
26	D/A1 integrato output	DA1INTOUT	Output	D/A1 conversion integrator is composed by using externally provided C.
27	D/A2 integrator input	DA2INTIN	Input	D/A2 conversion integrator is composed by using externally provided C.
28	D/A2 integrator output	DA2INTOUT	Output	D/A2 conversion integrator is composed by using externally provided C.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICK41 VHiM65840FP-1: MIC AMP (IM65840FP)(2/2)

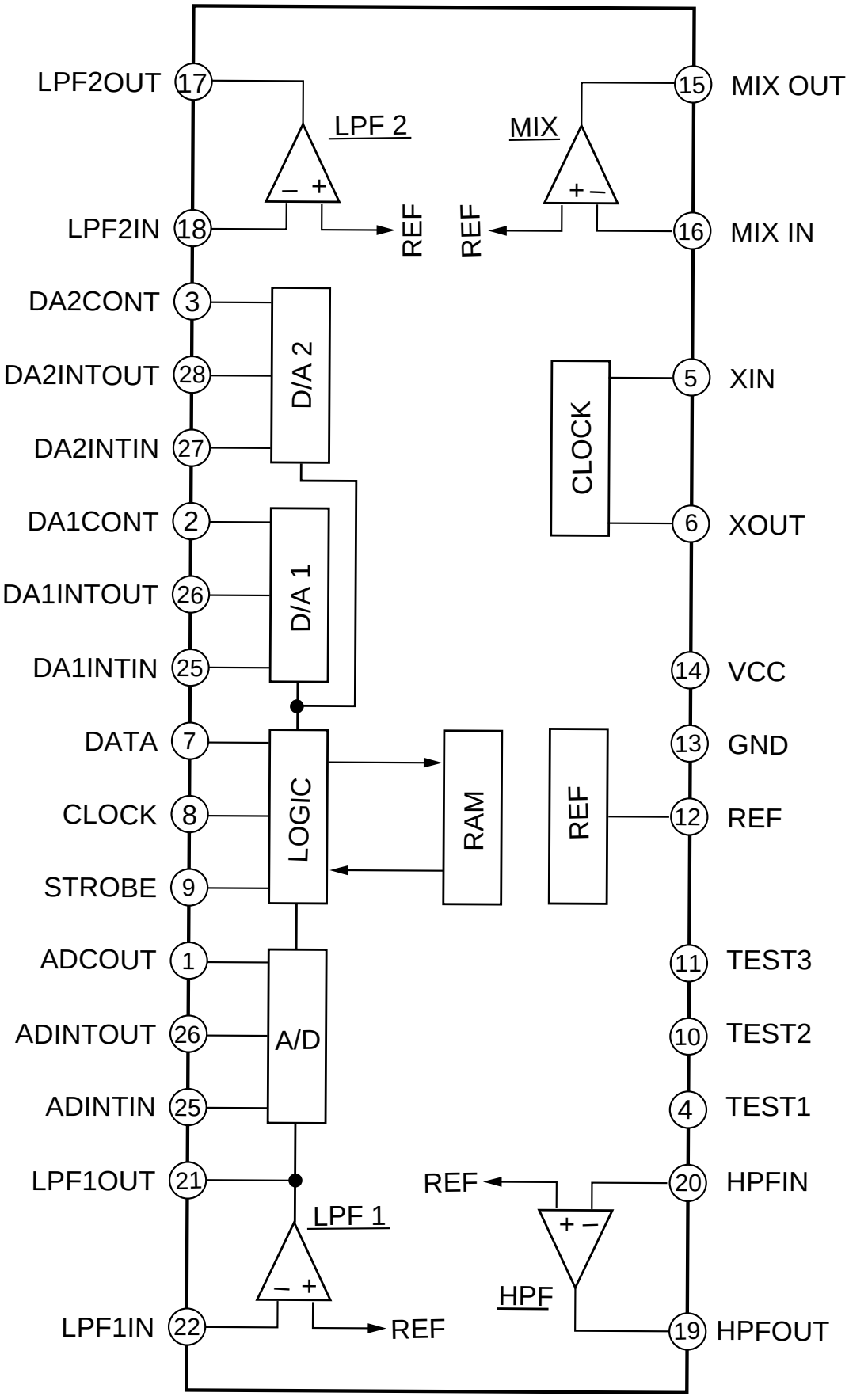
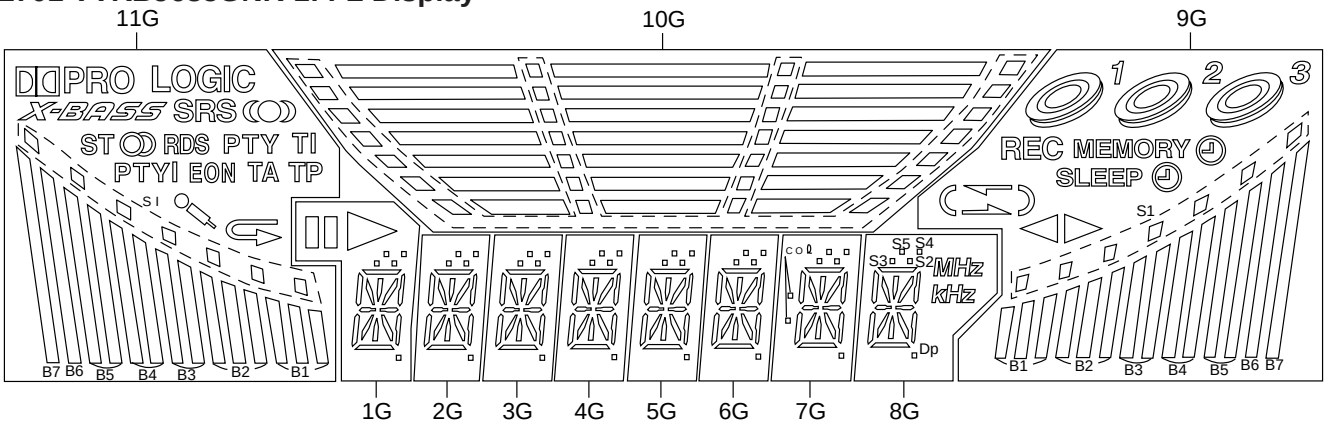
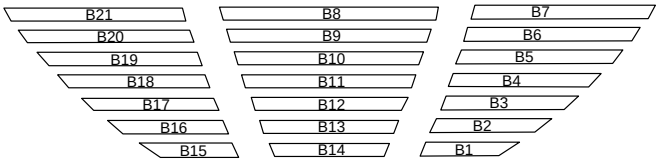


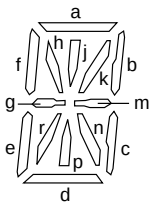
Figure 62 BLOCK DIAGRAM OF IC

FL701 VVKBJ685GNK-1: FL Display





[10G]



[1G~8G]

ANODE CONNECTION

	1G	2G~6G	7G	8G	9G	10G	11G
P1	Dp	Dp	Dp	Dp	S1	S1	S1
P2	d	d	d	d	B1	B1	B1
P3	c	c	c	c	B2	B2	B2
P4	n	n	n	n	B3	B3	B3
P5	p	p	p	p	B4	B4	B4
P6	r	r	r	r	B5	B5	B5
P7	e	e	e	e	B6	B6	B6
P8	m	m	m	m	B7	B7	B7
P9	g	g	g	g	1	B8	PRO LOGIC
P10	–	–	col	–	2	B9	X-BASS
P11	b	b	b	b	3	B10	SRS
P12	k	k	k	k	REC	B11	ST
P13	j	j	j	j	MEMORY	B12	
P14	h	h	h	h		B13	RDS
P15	f	f	f	f	(LOWER)	B14	PTY
P16	a	a	a	a	SLEEP	B15	TI
P17	S2	S2	S2	S2		B16	TP
P18	S3	S3	S3	S3		B17	TA
P19	S4	S4	S4	S4		B18	PTYI
P20	S5	S5	S5	S5		B19	EON
P21		–	–	MHz		B20	
P22		–	–	kHz	–	B21	

Figure 63 FL SEGMENT

— M E M O —

SHARP PARTS GUIDE

MODEL CD-K1861V

CD-K1861V Video CD Mini System consisting of CD-K1861V (main unit) and CP-C861(speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-K1861V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-K1861V

INTEGRATED CIRCUITS

IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78631E-1	J	BB	Servo/Signal Control,LC78631E
IC3	VHIM63001FP-1	J	AX	Focus/Trackig/Spindle/Sled Driver,M63001FP
IC4	VHIBA4558F/-1	J	AD	Ope Amp.,BA4558F
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832//-1	J	AR	FM IF Det./FM Mpx./AM IF, LA1832
IC401	VHIKIA4558P-1	J	AC	Surround Amp.,KIA4558P
IC562,563	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHIM62439SP-1	J	AG	Audio Processor,M62439SP
IC701	RH-IX0314AWZZ	J		System Control Microcomputer, IX0314AW
IC702,703	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC901	VHISTK4113E-1	J	BL	Power Amp.,STK4113E
ICK1	VHIM65845FP-1	J	BB	Mic Amp.,M65845FP
ICK41	VHIM65840FP-1	J	AX	Mic Amp.,M65840FP
ICK42	VHIBU4066BC-1	J	AG	Switching,BU4066BC
ICK43,44	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
ICV1	RH-IX0313AWZZ	J		MPEG Controller,IX0313AW
ICV2	VHID61012GC-1	J		MPEG Decoder,D61012GC
ICV3	VHISDM4260C-1	J		DRAM,SDM4260C
ICV4	VHINJM2267M-1	J		Video Operation Amp., NJM2267M

TRANSISTORS

Q1	VSKTA1504GR-1	J		Silicon,PNP,KTA1504 GR
Q51	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q52,53	VSKTC3265Y/-1	J		Silicon,NPN,KTC3265 Y
Q54	VSKTC3876Y/-1	J	AB	Silicon,NPN,KTC3876 Y
Q55	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q56	VSKTC3876Y/-1	J	AB	Silicon,NPN,KTC3876 Y
Q57	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q103~106	VS2SC2389SS-1	J	AD	Silicon,NPN,2SC2389 SS
Q107,108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VS2SA1318//-1	J	AC	Silicon,PNP,2SA1318
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q113,114	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q353,354	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q361	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q371	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q401	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q402	VS2SK246GR/-1	J	AB	FET,2SK246 GR
Q601,602	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q607,608	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q702	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q703	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q704	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q705~707	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q801	VHIAN78L05/-1	J	AE	Constant Voltage Regulator,AN78L05
Q802	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q803	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q850	VSKTD2058//-1	J		Silicon,NPN,KTD2058
Q851	VHIKIA7812P-1	J	AE	Voltage Regulator,KIA7812P
Q852	VHIKIA7806P-1	J	AG	Voltage Regulator,KIA7806P
Q853	VHIKIA78L05-1	J	AF	Voltage Regulator,KIA78L05
Q901~904	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q905	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q907~909	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q910,911	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QK31	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
QK32	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
QK33	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK41,42	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
QV1	VSUPC29M33T-1	J		Voltage Regulator,UPC29M33 T
QV2	VSKTA1298Y/-1	J	AC	Silicon,PNP,KTA1298 Y
QV3	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
QV4	VSKTA1298Y/-1	J	AC	Silicon,PNP,KTA1298 Y

DIODES

D1	VHDKDS193//-1	J		Silicon,KDS193
D91~93	VHDKDS193//-1	J		Silicon,KDS193
D101,102	VHD1SS133//-1	J	AA	Silicon,1SS133
D301~304	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D351~353	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D401	VHD1SS133//-1	J	AA	Silicon,1SS133
D551	VHD1SS133//-1	J	AA	Silicon,1SS133
D554~556	VHD1SS133//-1	J	AA	Silicon,1SS133
D601,602	VHD1SS133//-1	J	AA	Silicon,1SS133
D703	VHD1SS133//-1	J	AA	Silicon,1SS133
D705	VHD1SS133//-1	J	AA	Silicon,1SS133
D714~721	VHD1SS133//-1	J	AA	Silicon,1SS133
D801	VHD1SS133//-1	J	AA	Silicon,1SS133
D802~805	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D806~808	VHD1SS133//-1	J	AA	Silicon,1SS133
⚠ D809	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
⚠ D810	VHDBR102J02-1	J	AM	Silicon,BR102J02
⚠ D811~814	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D815~817	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D850~853	VHD1SS133//-1	J	AA	Silicon,1SS133
D901,902	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D903,904	VHD1SS133//-1	J	AA	Silicon,1SS133
D905,906	VHD1N5402M/-1	J	AE	Silicon,1N5402M
D907~913	VHD1SS133//-1	J	AA	Silicon,1SS133
DK1~4	VHD1SS133//-1	J	AA	Silicon,1SS133
DV1,2	VHD1SS133//-1	J	AA	Silicon,1SS133
DV4,5	VHDKDS193//-1	J		Silicon,KDS193
LED701	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED702	VHPSLI342YCB1	J	AC	LED,Yellow,SLI342YCB
LED703	VHPSLI342DCB1	J	AC	LED,Orange,SLI342DCB
LED704	VHPSLI342UCB1	J	AC	LED,Red,SLI342UCB
LED705	VHPSLI342DCB1	J	AC	LED,Orange,SLI342DCB
LED706	VHPSLI342YCB1	J	AC	LED,Yellow,SLI342YCB
LED707~710	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED711	VHPSLI342YC-1	J	AE	LED,Yellow,SLI342YC
LED716,717	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED718	VHPSLI325YC-1	J	AB	LED,Yellow,SLI325YC
LED719,720	VHPSLI342YCE1	J	AC	LED,Yellow,SLI342YCE
LED721	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED722	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
LED723,724	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
ZD61	VHEZ02W5R6Y-1	J		Zener,5.6V,Z02W5.6Y
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD352	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD551	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
ZD601,602	VHEMTZJ2R4B-1	J	AB	Zener,2.4V,MTZJ2.4B
ZD801	VHEMTZJ300C-1	J	AC	Zener,30V,MTZJ30C
ZD802	VHEMTZJ6R2A-1	J	AA	Zener,6.2V,MTZJ6.2A
ZD901,902	VHEMTZJ8R2C-1	J	AB	Zener,8.2V,MTZJ8.2C
ZD951	VHEMTZJ130B-1	J	AC	Zener,13V,MTZJ13B
ZDK31	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B

FILTERS

CF302	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T302	RCILA1064AFZZ	J	AD	AM Tracking
T306	RCILB1074AFZZ	J	AC	AM OSC.
T351	RCILI0011AWZZ	J	AD	AM IF
⚠ T801	RTRNP0247AWZZ	J	BL	Power
⚠ T802	RTRNP0239AWZZ	J	AP	Power

COILS

L61	VPBNNR82J0000	J		0.82 µH,Choke
L103	VP-DH101K0000	J	AB	100 µH,Choke
L104	VP-MK331K0000	J	AB	330 µH,Choke
L342	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L353	VP-DH102K0000	J	AB	1 mH,Choke
L601	VP-DH2R2K0000	J	AB	2.2 mH,Peaking
L702	VP-DH101K0000	J	AB	100 µH,Choke
L802	VP-DH101K0000	J	AB	100 µH,Choke
L901,902	RCILZ0137AFZZ	J	AA	0.29 µH

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
VARIABLE RESISTORS				
VR351	RVR-M0026AWZZ	J	AC	10 kohm (B),Semi-VR [FM Mute Level]
VRK1	92LVRR1674A	J	AF	20 kohms (B) [MIC1 LEVEL]
VRK2	92LVRR1674A	J	AF	20 kohms (B) [MIC2 LEVEL]
VRK3	92LVRR1674A	J	AF	20 kohms (B) [DIGITAL ECHO]
VIBRATORS				
X1	92LCRSTL1746A	J	AC	Ceramic,16.93 MHz
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XK41	RCRM-0024AWZZ	J	AF	Ceramic,16 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.19 MHz
XV1	RCRM-0201AFZZ	J	AD	Ceramic,4.19 MHz
XV2	RCRSP0013AWZZ	J		Crystal,27 MHz
CAPACITORS				
C1	VCEAPS476AF1A	J	AD	47 µF,10V,Electrolytic
C2	VCKYTV1HB103K	J	AA	0.01 µF,50V
C3	VCEAPS105AF1H	J	AB	1 µF,50V,Electrolytic
C4	VCKYTV1EB104K	J	AA	0.1 µF,25V
C5,6	VCKYTV1HB333K	J	AA	0.033 µF,50V
C7	VCKYTV1EB104K	J	AA	0.1 µF,25V
C8	VCKYTV1CB683K	J	AB	0.068 µF,16V
C9	VCKYTV1HB473K	J	AA	0.047 µF,50V
C10	VCCSTV1HL181J	J	AA	180 pF,50V
C11,12	VCKYTV1EB104K	J	AA	0.1 µF,25V
C13	VCKYTV1HB331K	J	AA	330 pF,50V
C14,15	VCKYTV1HB103K	J	AA	0.01 µF,50V
C16	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C17	VCKYTV1HB102K	J	AA	0.001 µF,50V
C18	VCEAPS474AF1H	J	AB	0.47 µF,50V,Electrolytic
C19	VCEAPS105AF1H	J	AB	1 µF,50V,Electrolytic
C20	VCEAPS476AF1A	J	AD	47 µF,10V,Electrolytic
C21	VCKYTV1HB332K	J	AA	0.0033 µF,50V
C22	VCKYTV1HB221K	J	AA	220 pF,50V
C23	VCKYTV1HB272K	J	AA	0.0027 µF,50V
C24	VCKYTV1HB221K	J	AA	220 pF,50V
C25	VCCCTV1HH270J	J	AA	27 pF (CH),50V
C26	VCKYTV1HB333K	J	AA	0.033 µF,50V
C27	VCKYTV1HB392K	J	AA	0.0039 µF,50V
C28	VCKYTV1EB104K	J	AA	0.1 µF,25V
C29	VCEAPS475AF1E	J	AB	4.7 µF,25V,Electrolytic
C30	VCKYTV1EB104K	J	AA	0.1 µF,25V
C31	VCEAPS227AF0G	J	AC	220 µF,4V,Electrolytic
C32	VCKYTV1HB103K	J	AA	0.01 µF,50V
C33	VCEAPS474AF1H	J	AB	0.47 µF,50V,Electrolytic
C34	VCEAPS334AF1H	J		0.33 µF,50V,Electrolytic
C35	VCEAPS105AF1H	J	AB	1 µF,50V,Electrolytic
C36	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C37	VCKYTV1HF223Z	J	AA	0.022 µF,50V
C38,39	VCKYTV1HB103K	J	AA	0.01 µF,50V
C40	VCKYTV1EB104K	J	AA	0.1 µF,25V
C41	VCEAPS475AF1E	J	AB	4.7 µF,25V,Electrolytic
C44~49	VCKYTV1HB101K	J	AA	100 pF,50V
C50	VCKYTV1HF223Z	J	AA	0.022 µF,50V
C51,52	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C54	VCKYTV1HB102K	J	AA	0.001 µF,50V
C55	VCEAPS107AF1C	J	AC	100 µF,10V,Electrolytic
C56	VCKYTV1HF223Z	J	AA	0.022 µF,50V
C57	VCKYTV1HB102K	J	AA	0.001 µF,50V
C58	VCKYTV1HB221K	J	AA	220 pF,50V
C59	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C60	VCCSTV1HL2R2C	J	AB	2.2 pF,50V
C75	VCKYTV1HB102K	J	AA	0.001 µF,50V
C76	VCKYTV1HF223Z	J	AA	0.022 µF,50V
C77	VCEAPS107AF1C	J	AC	100 µF,10V,Electrolytic
C82	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 µF,50V
C103	VCKYPA1HB103K	J	AA	0.01 µF,50V
C105	VCKYBT1HB181K	J	AA	180 pF,50V
C106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 µF,50V
C109	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121,122	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C129,130	VCKYMN1HB471K	J	AA	470 pF,50V
C131,132	VCKYMN1HB102K	J	AA	0.001 µF,50V
C133,134	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1CX823K	J	AB	0.082 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C150	VCQPKA2AA392J	J	AB	0.0039 µF,100V,Polypropylene
C151	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C152	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C154	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C155,156	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C301	VCKYMN1HB102K	J	AA	0.001 µF,50V
C321	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C330	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C331	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C335	VCCSPA1HL561J	J	AA	560 pF,50V
C337	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C341,342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C343	VCCSMN1HL330J	J	AA	33 pF,50V
C345~347	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 µF,16V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX333K	J	AA	0.033 µF,16V
C375	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C380	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C384	VCKYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103K	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C401,402	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C403,404	VCKYMN1HB472K	J	AA	0.0047 µF,50V
C405,406	VCCSMN1HL220J	J	AA	22 pF,50V
C407,408	VCKYMN1HB472K	J	AA	0.0047 µF,50V
C409	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C410	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C411	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C412,413	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C551	VCKYMN1HB271K	J	AA	270 pF,50V
C553	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C555,556	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C557	VCKYMN1HB271K	J	AA	270 pF,50V
C559	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C561~563	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C566~568	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C569	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601~606	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C611,612	VCTYPA1EX333K	J	AA	0.033 µF,25V
C613~615	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C616	VCCSMN1HL4R7K	J	AA	4.7 pF,50V
C617	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C618,619	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C620~622	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C623,624	VCKYMN1HB102K	J	AA	0.001 µF,50V
C627	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C628	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C629	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C630	VCKYMN1HB102K	J	AA	0.001 µF,50V
C631,632	VCKYMN1HB391K	J	AA	390 pF,50V
C634,635	VCTYMN1CX822K	J	AA	0.0082 µF,16V
C639~641	VCKYPA1HB102K	J	AA	0.001 µF,50V
C673	VCKYPA1HB103K	J	AA	0.01 µF,50V
C702	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C703,704	VCKYMN1HB102K	J	AA	0.001 µF,50V
C705	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C706	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C707	VCCSMN1HL150J	J	AA	15 pF,50V
C708	VCCSMN1HL180J	J	AA	18 pF,50V
C709	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C710	VCEAZA0JW108M	J		1000 µF,6.3V,Electrolytic
C711	VCTYMN1CY103N	J	AA	0.01 µF,16V
C712	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C713,714	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C715	RC-EZD476AF1C	J	AC	47 µF,16V,Electrolytic
C716	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C717	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C718	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C719	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C720	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C722	RC-EZD106AF1H	J	AB	10 µF,50V,Electrolytic
C723	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C725	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C801	RC-KZ002LAWZZ	J	AE	0.0047 µF,250V,Ceramic
C802	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C803	VCEAZV1VW477M	J		470 µF,35V,Electrolytic
C804	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C805	VCEAZV0JW228M	J	AC	2200 µF,6.3V,Electrolytic
C809,810	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C811,812	VCQYKU2AM224K	J	AB	0.22 µF,100V,Mylar
C813,814	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C815,816	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C817	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C818,819	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C820	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C850	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
C851	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C852,853	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C854	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C855,856	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C857	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C858,859	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C860	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C901,902	RC-EZ0029AWZZ	J	AN	3300 µF,71V,Electrolytic
C903,904	VCEAZW1VW478M	J	AL	4700 µF,35V,Electrolytic
C911,912	VCCSPA1HL470J	J	AA	47 pF,50V
C913,914	VCCSPA1HL330J	J	AA	33 pF,50V
C915,916	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C917,918	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C919,920	VCEAZV2AW107M	J		100 µF,100V,Electrolytic
C921,922	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C923,924	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C925	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C927~930	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C943	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C945	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C951	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C952	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C955	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C956,957	VCEAZV2AW476M	J		47 µF,100V,Electrolytic
CK1,2	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CK4	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CK5	VCKYMN1HB391K	J	AA	390 pF,50V
CK6	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
CK8	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
CK9	VCKYMN1HB391K	J	AA	390 pF,50V
CK10	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK11	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
CK12	VCTYPA1CX822K	J	AA	0.0082 µF,16V
CK13	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar
CK14	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
CK15	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
CK16,17	VCEAZA1HW154M	J	AB	0.15 µF,50V,Electrolytic
CK18	VCQYKA1HM103K	J	AA	0.01 µF,50V,Mylar
CK19	VCCSPA1HL121J	J	AA	120 pF,50V
CK20~23	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK24	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
CK25	VCTYMN1CX822K	J	AA	0.0082 µF,16V
CK26	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
CK27	VCQYKA1HM223K	J	AB	0.022 µF,50V,Mylar
CK28	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
CK29	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar
CK30	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
CK31	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK32	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CK33	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK34	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
CK35	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK36	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK37	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CK38,39	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK40	VCKYPA1HF223Z	J	AB	0.022 µF,50V
CK41~43	VCQYKA1HM683K	J	AB	0.068 µF,50V,Mylar
CK44,45	VCCSMN1HL470J	J	AA	47 pF,50V
CK46	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK47	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK48	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CK49,50	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CK54	VCTYMN1CX152K	J	AA	0.0015 µF,16V
CK56	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK61~65	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK71	VCTYMN1CX152K	J	AA	0.0015 µF,16V
CK72	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK73	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK74	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK76~80	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK81	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK82	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK83	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK84	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CK85	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK87,88	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
CK89,90	VCKYMN1HB101K	J	AA	100 pF,50V
CK91	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
CK95	VCQYKA1HM823K	J	AC	0.082 µF,50V,Mylar
CV1	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
CV2	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV3	VCKYTV1CF224Z	J	AB	0.22 µF,16V
CV4	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
CV5	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV6,7	VCCCTV1HH270J	J	AA	27 pF (CH),50V
CV9	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV10	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
CV11,12	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV13,14	VCKYTV1EB104K	J	AA	0.1 µF,25V
CV15	VCEAPS475AF1E	J	AB	4.7 µF,25V,Electrolytic
CV16	VCKYTV1EB104K	J	AA	0.1 µF,25V
CV17	VCKYTV1HB103K	J	AA	0.01 µF,50V
CV18	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CV19~21	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV22,23	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
CV24,25	VCKYTV1HF223Z	J	AA	0.022 µF,50V
CV26,27	VCKYTV1HB561K	J	AA	560 pF,50V
CV28~31	VCCSTV1HL181J	J	AA	180 pF,50V
CV32	VCKYTV1EF104Z	J	AA	0.1 µF,25V
CV33	VCEAPS337AF0J	J	AC	330 µF,6.3V,Electrolytic
CV34,35	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CV36,37	VCCCTV1HH470J	J	AA	47 pF (CH),50V
CV38,39	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CV40	VCEAPS226AF0J	J	AB	22 µF,6.3V,Electrolytic
CV41	VCEAPS475AF1E	J	AB	4.7 µF,25V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R1	VRS-TV2AB120J	J	AA	12 ohms,1/10W
R2~5	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R6	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R8	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R9	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R10	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R11	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R12	VRS-TV2AB101J	J	AA	100 ohm,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R13	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R14	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R15	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R16	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R17	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R18	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R19,20	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R21	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R22	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R23	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R24	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R25	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R26	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R27	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R28	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R29	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R30	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R31	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R32	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R33	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R34	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R35,36	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R37	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R38	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R39	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R40	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R41,42	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R43	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R44	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R45	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R46	VRS-TV2AB561J	J	AA	560 ohms,1/10W
R47	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R48	VRS-TV2AB335J	J	AA	3.3 Mohms,1/10W
R49	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R50	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R51	VRS-TV2AB335J	J	AA	3.3 Mohms,1/10W
R52	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R53	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R54	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R56	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R57~63	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R64	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R66	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R67~69	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R70	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R75~78	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R80,81	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R82,83	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R84	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R90	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R91	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R101	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111,112	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131,132	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD183J	J	AA	18 kohms,1/8W
R137	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R139,140	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R141,142	VRD-MN2BD560J	J	AA	56 ohms,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R155	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R156	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R157	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R167	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R168	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R169	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R170	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R171,172	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R173,174	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R175	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R336	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R344	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R345	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R350	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R354	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R363,364	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R365,366	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R367	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R368	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R369	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R371~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2EE680J	J	AA	68 ohms,1/4W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R378	VRD-MN2BD823J	J	AA	82 kohms,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383~385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R387	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R391,392	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R393	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R395	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R398	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R401,402	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R403,404	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R405,406	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R407~410	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R411~414	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R415	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R416	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R417	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R418	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R419	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R420	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R551	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R553	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R555	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R556	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R558	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R560	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R561	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R562	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R564	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R566	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R567	VRD-MN2BD274J	J	AA	270 kohms,1/8W
R568	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R570	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R572	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R573	VRD-MN2BD564J	J	AA	560 kohms,1/8W
R574,575	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R578~580	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R601~608	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R609	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R610	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R611	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R612	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R613,614	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R615,616	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R617,618	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R623	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R624	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R625	VRD-MN2BD223J	J	AA	22 kohms,1/8W

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R626	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R628	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R629,630	VRD-RT2HD561J	J	AA	560 ohms,1/2W
R631,632	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W
R633,634	VRD-MN2BD393J	J	AA	39 kohms,1/8W
R635,636	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R637,638	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R639	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R640	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R641	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R642	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R650,651	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R652,653	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R654,655	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R656	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R701~703	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R705~708	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R709~711	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R712	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R713~715	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R716	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R717	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R719,720	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R721~723	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R724	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R726~729	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R730~732	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R733,734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R735	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R736,737	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R738	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R739	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R740~743	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R744,745	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R747,748	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R749,750	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R751	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R752~754	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R755,756	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R757	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R758	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R759,760	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R761~778	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R780	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R781	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R782~785	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R786	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R787	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R791	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R795	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R797	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R798	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R799	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R801	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R802	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R805	VRD-ST2EE100J	J	AA	10 ohm,1/4W
R851	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R852,853	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R854	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R901,902	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R903,904	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R905,906	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R907,908	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R909,910	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R911	VRD-ST2CD333J	J	AA	33 kohms,1/6W
⚠ R912,913	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R915,916	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R917,918	VRN-VV3LAR10J	J		0.1 ohm,3W
R919,920	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R921,922	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R923	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R925~928	VRD-RT2HD100J	J	AA	10 ohm,1/2W
R929,930	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R931,932	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R933,934	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R935,936	VRD-RT2HD221J	J	AA	220 ohms,1/2W
R937	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R938	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R939	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R941,942	VRS-VV3DA561J	J	AC	560 ohms,2W
R943	VRS-VV3DA681J	J	AC	680 ohms,2W
R953,954	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R955,956	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R957	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R958	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R959	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R960	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R961,962	VRD-ST2CD393J	J	AA	39 kohms,1/6W
RD01	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD02	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD03	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD04	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
RD05	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RD06	VRD-MN2BD123J	J	AA	12 kohms,1/8W
RD07	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RD09	VRD-MN2BD683J	J	AA	68 kohms,1/8W
RD10	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD11	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD12	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD13	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD14	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD15	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RD16	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD17	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RD18	VRD-MN2BD123J	J	AA	12 kohms,1/8W
RD19	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RD20	VRD-MN2BD683J	J	AA	68 kohms,1/8W
RD21	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD22	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD23	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD24	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD26	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RD27	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD28	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RD29	VRD-ST2CD123J	J	AA	12 kohms,1/6W
RD30	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD31	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RD32	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RK1,2	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RK3	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RK4	VRD-MN2BD124J	J	AA	120 kohms,1/8W
RK5	VRD-ST2CD124J	J	AA	120 kohms,1/6W
RK6	VRD-ST2CD153J	J	AA	15 kohms,1/6W
RK7	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK8	VRD-MN2BD153J	J	AA	15 kohms,1/8W
RK9	VRD-MN2BD330J	J	AA	33 ohms,1/8W
RK10,11	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK12	VRD-MN2BD563J	J	AA	56 kohms,1/8W
RK13	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK14	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RK15	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RK16	VRD-MN2BD153J	J	AA	15 kohms,1/8W
RK17	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK18	VRD-MN2BD153J	J	AA	15 kohms,1/8W
RK19	VRD-ST2CD153J	J	AA	15 kohms,1/6W
RK20	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RK21~23	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
RK24	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
RK25,26	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RK27	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK28	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK29	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK30	VRD-ST2CD223J	J	AA	22 kohms,1/6W
RK31,32	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK36	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RK37	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RK38,39	VRD-RT2HD101J	J	AA	100 ohm,1/2W
RK41~43	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK44	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK45	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK46	VRD-ST2CD153J	J	AA	15 kohms,1/6W
RK48,49	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK50	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
RK51	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK54,55	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RK58	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK59	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RK60,61	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK68	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
RK69,70	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK71	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RK72	VRD-ST2EE561J	J	AA	560 ohms,1/4W
RK73	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RK74~82	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK83	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK84	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RK85~88	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RK89,90	VRD-MN2BD223J	J	AA	22 kohms,1/8W
RK91	VRD-ST2EE561J	J	AA	560 ohms,1/4W
RK92	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK93	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RK94	VRD-ST2EE561J	J	AA	560 ohms,1/4W
RK95,96	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RK97,98	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RK99,100	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RS701~703	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS704,705	VRD-ST2CD471J	J	AA	470 ohms,1/6W
RS706	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS707	VRD-ST2CD471J	J	AA	470 ohms,1/6W
RS708~710	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS711	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RS712	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RV1	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RV2	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
RV6~15	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RV16,17	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
RV18~22	VRS-TV2AB102J	J	AA	1 kohm,1/10W
RV23~36	VRS-TV2AB271J	J	AA	270 ohms,1/10W
RV37~50	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
RV56~59	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
RV60	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RV61	VRS-TV2AB104J	J	AA	100 kohm,1/10W
RV62,63	VRS-TV2AB151J	J	AA	150 ohms,1/10W
RV64~67	VRS-TV2AB822J	J	AA	8.2 kohms,1/10W
RV68~71	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
RV72~75	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RV76,77	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
RV78,79	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RV81	VRS-TV2AB473J	J	AA	47 kohms,1/10W
RV82	VRS-TV2AB273J	J	AA	27 kohms,1/10W
RV83	VRS-TV2AB101J	J	AA	100 ohm,1/10W
RV84	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
RV85	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RV86	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
RV87~89	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
RV93,94	VRS-TV2AB103J	J	AA	10 kohm,1/10W
RV95	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
RV96	VRS-TV2AB333J	J	AA	33 kohms,1/10W

OTHER CIRCUITRY PARTS

BI11/CNS11	QCNWN1487AWZZ	J	AF	Connector Ass'y,6/6Pin
BI12/CNS12	QCNWN1381AWZZ	J	AL	Connector Ass'y,15/15Pin
BI702/CNSM1	QCNWN1386AWZZ	J	AG	Connector Ass'y,8/12Pin
BI704/CNS704	QCNWN1426AWZZ	J	AF	Connector Ass'y,6/6Pin
BI801/CNS801	QCNWN1428AWZZ	J	AE	Connector Ass'y,3/3Pin
BI802/CNS802	QCNWN1429AWZZ	J	AG	Connector Ass'y,8/8Pin
BIK1/CNSV1	QCNWN1520AWZZ	J		Connector Ass'y,12/12Pin
BIM5/CNS10/CNS5	QCNWN1184AWZZ	J	AL	Connector Ass'y,6/10/2Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP10	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNP11	QCNCM704FAWZZ	J	AC	Plug,6Pin
CNP12	QCNCM704QAWZZ	J	AG	Plug,15Pin
CNP101	92LCONE3P53253	J	AB	Plug,3Pin
CNP102	92LCONE7P53253	J	AC	Plug,7Pin
CNP301	92LCONE3P5268	J	AC	Plug,3Pin
CNP303	QCNCW010JAWZZ	J	AC	Plug,9Pin
CNP701	QCNCWZG24AWZZ	J	AE	Socket,24Pin
CNP704	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP801	QCNCM035CAWZZ	J	AB	Plug,3Pin
CNP802	QCNCM035HAWZZ	J	AB	Plug,8Pin
CNP901	QCNCM010NAWZZ	J	AC	Plug,13Pin
CNP903	92LCONE2P53253	J	AB	Plug,2Pin
CNPM1	QCNCM932MAFZZ	J	AE	Plug,12Pin
CNPM2	QCNCM030BAWZZ	J	AB	Pin Header,2Pin
CNPV1	QCNCM704MAWZZ	J		Plug,12Pin
CNPV2	QCNCM704DAWZZ	J		Plug,4Pin
CNPV3	QCNCM704BAFZZ	J	AA	Plug,2Pin
CNS1A/B	QCNWN1181AWZZ	J	AK	Connector Ass'y,5/5Pin
CNS2A/B	QCNWN1182AWZZ	J	AH	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1183AWZZ	J	AG	Connector Ass'y,6/6Pin
CNS101	QCNWN1187AWZZ	J	AG	Socket,3Pin
CNS102	QCNWN1188AWZZ	J	AM	Socket,7Pin
CNS303	QCNCM010JAWZZ	J	AC	Plug,9Pin
CNS701	QCNCWZF24AWZZ	J	AE	Socket,24Pin
CNS901	QCNCW010NAWZZ	J	AC	Socket,13Pin
CNS903	QCNWN1452AWZZ	J	AC	Socket,2Pin
CNSV2	QCNWN1519AWZZ	J		Socket,4Pin
CNSV3A/B	QCNWN1518AWZZ	J		Connector Ass'y,2/2Pin
⚠ F801	92LFUSE-T502-E	J	AD	Fuse,T5A L 250V
⚠ F802,803	92LFUSET252E	J	AD	Fuse,T2.5V L 250V
⚠ F804,805	92LFUSE-T502-E	J	AD	Fuse,T5A L 250V
⚠ F806	92LFUSE-T202E	J	AD	Fuse,T2A L 250V
FE301	RTUNS0008AWZZ	J	AN	FM Front End
FFC701	QCNWN1453AWZZ	J	AG	Flat Cable,24Pin
FL701	VVKBJ685GNK-1	J	AV	FL Display
FW703	QCNWN1427AWZZ	J	AD	Flat Wire,6Pin
FWM1	QCNWN1274AWZZ	J	AC	Flat Wire,2Pin
FWM2	QCNWN0338AWZZ	J	AD	Flat Wire,2Pin
JK1,2	92LJACK1249A	J		Jack,MIC
JK601	QSOCJ0219AWZZ	J	AD	Jack,Video/AUX
JK671	QJAKM0008AWZZ	J	AF	Jack,Headphones
JKV1	QSOCJ0110AWZZ	J		Jack,Video Out
JOG701	QSW-Z0007AWZZ	J	AG	Switch,Push Type [Volume Jog]
LG901	QLUGP0001AWZZ	J	AC	Lug Terminal
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LMTR3022AS1	J	AU	Motor with Worm Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J	AK	Motor,Air Cooling Fan
MM1(260-7)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
PHM1	VHPI31535CD-1	J	AG	Photo Interrupter
PIN1	QLUGP0002AWZZ	J	AB	Lug Pin
PIN103	QLUGP0002AWZZ	J	AB	Lug Pin
RL801	RRLYD0012AWZZ	J	AM	Relay
RL901	RRLYD0004AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO301	QTANC0301AWZZ	J	AH	Terminal,Antenna
SO901	QTANA0401AWZZ	J	AG	Terminal,Speaker
SOLM1(260-8)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
SOLM2	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [CD]
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [ON/STAND-BY]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [Book Mark]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [Clock]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [Timer/Sleep]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 1]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 2]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [Disc 3]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [Disc Skip]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [Open/Close]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [Rewind]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [Record Pause]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [Memory/Set]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [Stop]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [Tuner (BAND)]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [Video/Aux]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [Tape]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW718	92LSWICH1401AT	J	AC	Switch,Key Type [Audio Mode]
SW719	92LSWICH1401AT	J	AC	Switch,Key Type [Playback Control]
SW720	92LSWICH1401AT	J	AC	Switch,Key Type [ON Screen Display]
SW721	92LSWICH1401AT	J	AC	Switch,Key Type [Digest]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Forward]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning Up]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning Down]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [Play]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS/Demo]

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [Equalizer]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [Dimmer]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [Surround]
SW736	92LSWICH1401AT	J	AC	Switch,Key Type [Key Control,A]
SW737	92LSWICH1401AT	J	AC	Switch,Key Type [Key Control,B]
SW738	92LSWICH1401AT	J	AC	Switch,Key Type [Key Control,C]
⚠ SW801	QSOCE0008AWZZ	J	AH	Switch,Slide Type [Voltage Selector]
SWM3(260-9)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
SWM4(260-10)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S.]
SWM5(260-11)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J	AM	CD Player Base
202	92LCAB3158AS1	J		Front Panel Ass'y
202- 1	————		—	Front Panel (Not Replacement Item)
202- 2	JKNBZ0557AWSB	J	AD	Button,Disc No.
202- 3	JKNBZ0558AWSA	J	AE	Button,Open/Close/Disc Skip
202- 4	JKNBZ0628AWSA	J	AE	Button,On/Stand-by
202- 5	JKNBZ0560AWSA	J	AE	Button,X-BASS/Demo
202- 6	JKNBZ0563AWSB	J	AG	Button,Fast Forward/Rewind
202- 7	JKNBZ0622AWSA	J	AD	Button,Timer/Sleep/Clock
202- 8	JKNBZ0621AWSA	J	AD	Button,Dimmer/Equalizer
202-10	KNOB3157AASY1	J		Button,Function
202-11	HDECQ0412AWSA	J	AC	Operation Ring A
202-12	HDECQ0413AWSB	J	AB	Operation Ring B
202-13	HDECQ0414AWSA	J	AD	Cap,Operation Center
202-14	HDECQ0415AWSA	J	AD	Cover,LED
202-15	HDECQ0417AWSA	J	AE	Panel,Center Cap
202-16	HDECQ0418AWSB	J	AH	Panel,Decoration
202-17	HDECQ0419AWSA	J	AF	Decoration,Play Button
202-18	HDECQ0420AWSA	J	AE	Decoration,Stop Button
202-19	HDECQ0512AWSA	J		Panel,AMP.
202-20	HDECQ0457AWSA	J	AC	Panel,Play Decoration
202-21	HDECQ0458AWSA	J	AC	Panel,Stop Decoration
202-22	PSHEP0031AWZZ	J	AC	Sheet,Reflector
202-23	JKNBZ0635AWSA	J		Knob,Surround
202-24	GCOVA1240AWZZ	J	AC	Refelector
202-25	JKNBZ0614AWSA	J	AE	Button,RDS
202-26	JKNBZ0619AWSA	J		Button,Key Control
203	92LMEC3051CTS1	J	AN	Cassette,Holder Ass'y,Tape 1
203- 1	————		—	Cassette Holder,Tape 1 (Not Replacement Item)
203- 2	GCOVA1221AWSC	J	AH	Cassette Cover,Tape 1
203- 3	HDECQ0408AWSA	J	AD	Panel,Cassette,Tape 1
204	92LMEC3051CTS2	J	AN	Cassette,Holder Ass'y,Tape 2
204- 1	————		—	Cassette Holder,Tape 2 (Not Replacement Item)
204- 2	GCOVA1222AWSC	J	AH	Cassette Cover,Tape 2
204- 3	HDECQ0409AWSA	J	AD	Panel,Cassette,Tape 2
205	92LKNOB3051BS1	J		Button,Volume Ass'y
205- 1	————		—	Button,Volume (Not Replacement Item)
205- 2	92LCSPR1431C	J	AA	Spring,Ring
205- 3	GCOVA1233AWZZ	J	AD	Refelector B
206	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
207	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
208	92LHOLD3022AS1	J	AB	Stabilizer Ass'y
208- 1	————		—	Stabilizer (Not Replacement Item)
208- 2	PMAGF0001AWZZ	J	AF	Magnet,Stabilizer
208- 3	92LSUPT1749D	J	AA	Support,Stabilizer Magnet
209	MLEVP0067AWZZ	J	AC	Lever,Lock
210	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
211	LHLDZ1141AWZZ	J	AB	Support,Pitch
212	MLEVP0066AWZZ	J	AE	Lever,Shift
213	MLEVP0068AWZZ	J	AB	Lever,Change
214	MSPRC0024AWFW	J	AB	Spring,Solenoid
215	NBLTK0033AWZZ	J	AC	Belt,Drive
216	NGERH0064AWZZ	J	AD	Gear,Cam
217	NGERH0065AWZZ	J	AB	Gear,Turntable
218	NGERK0003AWZZ	J	AC	Gear,Drive
219	NGERK0004AWZZ	J	AB	Gear,Bevel
220	NGERK0005AWZZ	J	AB	Gear,Loading
221	NGERW0006AWZZ	J	AC	Gear,Worm Wheel
222	NPLYD0002AWZZ	J	AC	Pulley
223	LANGF0032AWZZ	J	AC	Support,T/T Lock Lever
224	LCHSZ0010AWZZ	J	AM	Chassis,Loading
225	LHLDZ1140AWZZ	J	AB	Guide
226	MLEVP0070AWZZ	J	AB	Lever,T/T Lock
227	MSPRC0020AWFJ	J	AB	Spring,T/T Lock Lever
228	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
229	NROLP0009AWZZ	J	AB	Roller
230	NTNT-0018AWSA	J	AK	Turntable
231	PCOVZ1013AWZZ	J	AB	Cover,Wire
232	PCUSG0022AWZZ	J	AB	Cushion,Leg
233	92LCOV3159AS1	J		CD Tray Cover Ass'y
233- 1	————		—	Cover,CD Tray (Not Replacement Item)
233- 2	92LBADGE1671A	J	AC	Badge,SHARP
233- 3	GCOVA1224AWSA	J	AE	Cover,CD Tray Panel,Left
233- 4	GCOVA1225AWSA	J	AE	Cover,CD Tray Panel,Right
234	GCAB-1052AWSA	J	AP	Top Cabinet
235	GCOVA1232AWZZ	J	AC	Cover,Volume Refector A
236	92LN-BAND1318A	J	AA	Nylon Band,80mm
239	PCUSG0022AWZZ	J	AB	Cushion,Leg
240	92LCAB3081BS1	J	AM	Side Panel Ass'y,Left
240- 1	————		—	Side Panel,Left (Not Replacement Item)
240- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
241	92LCAB3081CS1	J	AM	Side Panel Ass'y,Right
241- 1	————		—	Side Panel,Right (Not Replacement Item)
241- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
242	LANGK0059AWFW1	J	AD	Bracket,Motor Fan Support
243	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
245	LCHSM0088AWFW	J	AR	Main Chassis
246	NFANP0001AWZZ	J	AD	Rotary Fan
247	GITAR0516AWSA	J		Rear Panel
⚠ 248	QFSHD0001AWZZ	J	AB	Holder,Fuse
⚠ 249	QACCA0001AW00	J	AM	AC Power Supply Cord [For Saudi Arabia]
⚠ 249	QACCB0009AW00	J	AL	AC Power Supply Cord [For Hong Kong]
⚠ 249	QACCE0012AW00	J		AC Power Supply Cord [Except for Saudi Arabia/Hong Kong]
250	PRDAR0095AWFW	J	BB	Heat Sink,Main
252	PRDAR0140AWFW	J	AG	Heat Sink,Sub
253	92LCSPR1431C	J	AA	Spring,Ring
254	LHLDZ1226AWZZ	J	AC	Holder,Multi Indicator
255	LHLDZ1227AWZZ	J	AC	Holder,Volume
256	LHLDZ1228AWZZ	J	AC	Holder,Play,Stop
257	LHLDZ1229AWZZ	J	AC	Holder,Function
258	LHLDZ1213AWZZ	J	AE	Holder,FL
259	LHLDZ1204AWSA	J	AD	Bracket,Stabilizer
260	92LMEC2744AS1	J	BK	Tape Mechanism Ass'y
260- 1	NBLTK0011AWZZ	J	AC	Belt,Main
260- 2	NBLTK0012AWZZ	J	AB	Belt,Main
260- 3	NBLTK0030AWZZ	J	AC	Belt,Sub
260- 4	NROLY0002AWZZ	J	AF	Pinch Roller Ass'y
260- 5	RHEDA0001AWZZ	J	AG	Head,Erase
260- 6	92LMRPH1746A	J	AM	Head,Record/Playback
260- 7(MM1)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
260- 8(SOLM1)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
260- 9(SWM3)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
260-10(SWM4)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S.]
260-11(SWM5)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
262	MLIFP0006AWZZ	J	AE	Damper,Cassette Holder
263	LANGK0057AWFW	J	AE	Bracket,Heat Sink,A

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
264	LANGK0058AWFW	J	AE	Bracket,Heat Sink,B
266	LHLDF1001AWZZ	J	AC	Holder,PWB
267	QCNWN1481AWZZ	J	AD	Lug Wire
268	92LCAUT1706A1	J	AC	Label,Class 3
269	92LCAUT1706B	J	AA	Label,Laser
⚠270	92LLUG1746A	J	AA	Lug,Terminal
271	LANGT0047AWFW	J	AE	Bracket,Tuner PWB (A)
272	LANGT0048AWFW	J	AD	Bracket,Tuner PWB (B)
273	TSPC-0619AWZZ	J		Label,Specifications [For Thailand]
273	TSPC-0620AWZZ	J		Label,Specifications [For Taiwan]
274	LHLDZ1235AWZZ	J		Holder,Disc No.
275	LHLDZ1237AWZZ	J		Holder,Surround LED
276	JKNBK0012AWSF	J		Button,Mic Level/Digital Echo
601	XJBSF30P10000	J	AA	Screw,ø3×10mm
602	XEBSF30P12000	J	AA	Screw,ø3×12mm
603	XJBSD30P08000	J	AA	Screw,ø3×8mm
604	XJBSD30P10000	J	AA	Screw,ø3×10mm
605	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
606	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
607	XBBSD20P04000	J	AA	Screw,ø2×4mm
610	XESSD30P10000	J	AA	Screw,ø3×10mm
611	XJSSF30P10000	J	AA	Screw,ø3×10mm
612	XWHJZ62-09510	J	AB	Washer,ø6.2×ø10×0.9mm
613	XEBSD30P10000	J	AA	Screw,ø3×10mm
614	LX-JZ0002AWFD	J	AA	Screw,ø3×10mm
615	LX-EZ0005AWFD	J	AA	Screw,Special
616	XEBSD30P12000	J	AA	Screw,ø3×12mm
617	XBPSD26P05JSO	J	AB	Screw,ø2.6×5mm
618	LX-TZ0019AFZZ	J	AB	Screw,Special
619	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
621	XHBSD30P06000	J	AA	Screw,ø3×6mm
622	XJBSF30P06000	J	AA	Screw,ø3×6mm
623	XEBSF30P10000	J	AA	Screw,ø3×10mm
624	XJSSD30P10000	J	AA	Screw,ø3×10mm
625	XJBSD30P16000	J	AA	Screw,ø3×16mm
626	LX-JZ0022AFFD	J	AA	Screw,ø3×10mm
628	LX-WZ9028AWZZ	J	AB	Washer,Fiber Type

ACCESSORIES/PACKING PARTS

	QANTL0009AWZZ	J	AH	AM Loop Antenna
	QCNWG0022AWZZ	J	AM	Cable,VIDEO
	SPAKA0214AWZZ	J	AN	Packing Add.,Unit
	SPAKC0861AWZZ	J		Packing Case
	SPAKP0032AWZZ	J	AF	Polyethylene Bag,Unit
	SPAKZ0507AWZZ	J	AB	Protection Sheet
	SPAKZ0517AWZZ	J	AF	Pad,Bottom
	SPAKZ0525AWZZ	J		Pad,Side
	TCAUA0041AWZZ	J		Caution Tag [For Taiwan Only]
	TCAUS0014AWZZ	J	AC	Safety Caution
	TCAUS0019AWZZ	J	AD	Label,Warning [For Thailand]
	TGANE0011AW24	J		Warranty Card [For Philippines Only]
	TGANZ0028AW33	J		Warranty Card [For Taiwan]
	TINST0063AWZZ	J		Operation Manual [For Thailand]
	TINSZ0482AWZZ	J		Operation Manual [Except for Thailand]
	TLABE0328AWZZ	J		Label,Bar Code [For Singapore]
	TLABE0329AWZZ	J		Label,Bar Code [Except for Singapore/Brasil]
	TLABE0343AWZZ	J		Label,Bar Code
	TLABE0346AWZZ	J		Label,Bar Code
	TLABG0002AWZZ	J	AB	Label,Hong Kong [For Hong Kong Only]
	TLABH0056AWSA	J		Sheet,E/C Comparison [For Taiwan Only]
	TLABH0057AWSA	J		Sheet,E/C Comparison [For Taiwan Only]
	TLABH0058AWSA	J		Sheet,E/C Comparison [For Taiwan Only]
	TLABJ0003AWZZ	J	AB	Label,SHARP Corporation JAPAN [For Chile/Peru/Bolivia]
	TLABS0229AWZZ	J		Label,Safety [For Hong Kong Only]
	TLABZ0613AWZZ	J		Label,Feature Tape 2
	TLABZ0616AWZZ	J		Label,Feature Tape 1
	TLABZ0620AWZZ	J	AB	Label,Saving Energy
	TLABZ0638AWZZ	J		Label,Carton [For Taiwan]
	TLABZ0641AWZZ	J		Spacer,Function
	TLSTS0014AWZZ	J		Service Station List

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	TMAPC0164AWZZ	J		Schematic Diagram,A [For Egypt Only]
	TMAPC0165AWZZ	J		Schematic Diagram,B [For Egypt Only]
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
	92LBAG1770A	J	AB	Polyethylene Bag,AC Plug Adaptor
	92LBAG760C	J	AA	Bag,Plug Adaptor [For Saudi Arabia Only]
	92LCAUT1513A	J	AA	Polyethylene Bag,Caution
	92LFANT1746A	J	AD	FM Antena
	92LLABL372C	J	AB	Label,Serial No.
⚠	92LPLUG027	J	AD	AC Plug Adaptor [For Saudi Arabia Only]
⚠	92LPLUG155A	J	AG	AC Plug Adaptor [For Philippines Only]
	RRMCG0204AWSA	J		Remote Control
	GFTAB1022AWSA	J	AK	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	92LPWB3158MANS	J	—	Main/Display/Switch (Combined Ass'y)
PWB-B1,2	92LPWB3158PWRS	J	—	Power Supply/Power Amp. (Combined Ass'y)
PWB-C	92LPWB3158VCDS	J	—	CD Video
PWB-D	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-E	QPWBF0341AWZZ	J	AB	Sensor (PWB Only)
PWB-F	QPWBF0106AWZZ	J	AF	Tape Mechanism (PWB Only)
PWB-G	92LPWB3073TUNS	J	—	Tuner
PWB-H	QPWBF0568AWZZ	J		Jack (PWB Only)
PWB-J	QPWBF0567AWZZ	J		Karaoke(PWB Only)

OTHER SERVICE PARTS

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

CP-C861

SPEAKER BOX PARTS

901	92L9506-1C	J		Cabinet Ass'y
902	92LJ1919LA	J	BA	Front Panel,Left
903	92LJ1919RA	J	BA	Front Panel,Right
904	92L1918A	J	AX	Net Frame Ass'y
906	92LTD8675NM	J		Speaker Cord Ass'y (With Capacitor C1,2)
908	92LJ9802	J		Catching Holder
909	92LF1228A	J		Screw,ø4×12mm
911	92LF1080	J		Screw,ø3×10mm
912	92LP5815W	J		Label,Specifications
914	92LK6763F	J		Paper Pipe
915	92LJ1920	J		Support,Woofer
916	92LF1678A	J		Screw,ø4×16mm
917	92LJ9803	J		Rubber Cushion
918	92LJ9804	J		Felt
919	92LF1875	J		Screw,ø4×18mm
SP1,2	VSP0020WBA56A	J	BE	Woofer
SP3,4	VSP0080TBP36A	J	BA	Tweeter
SP5,6	92LC2827AS	J	AP	Super Tweeter Ass'y

PACKING PARTS

	92LN1876F	J		Packing Add.,Top
	92LN1876R	J		Packing Add.,Bottom
	92LV1017CA	J		Sheet,Miramat
	92LV4974B	J		Polyethylene Bag
	92LV5795E	J		Layer Pad

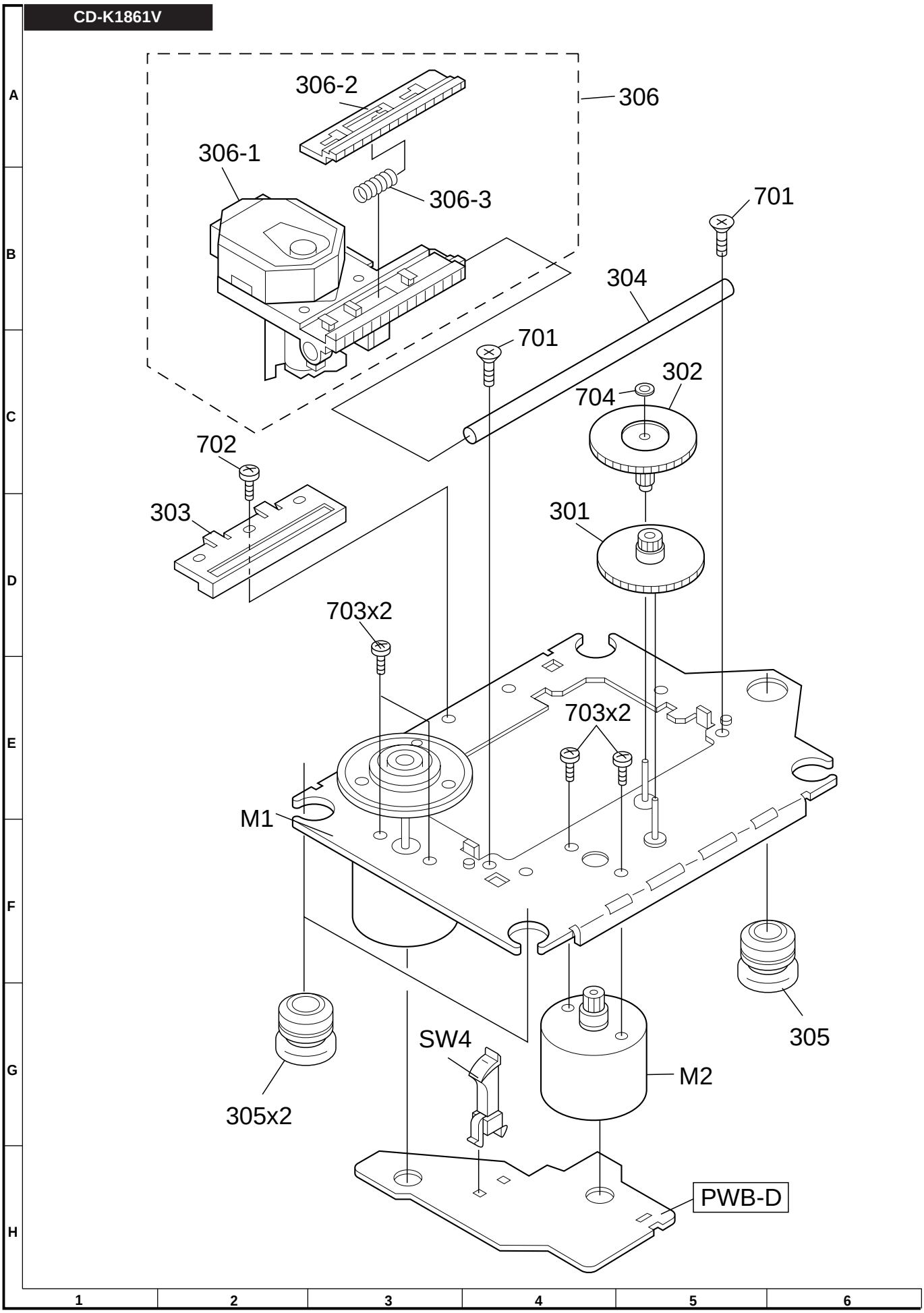
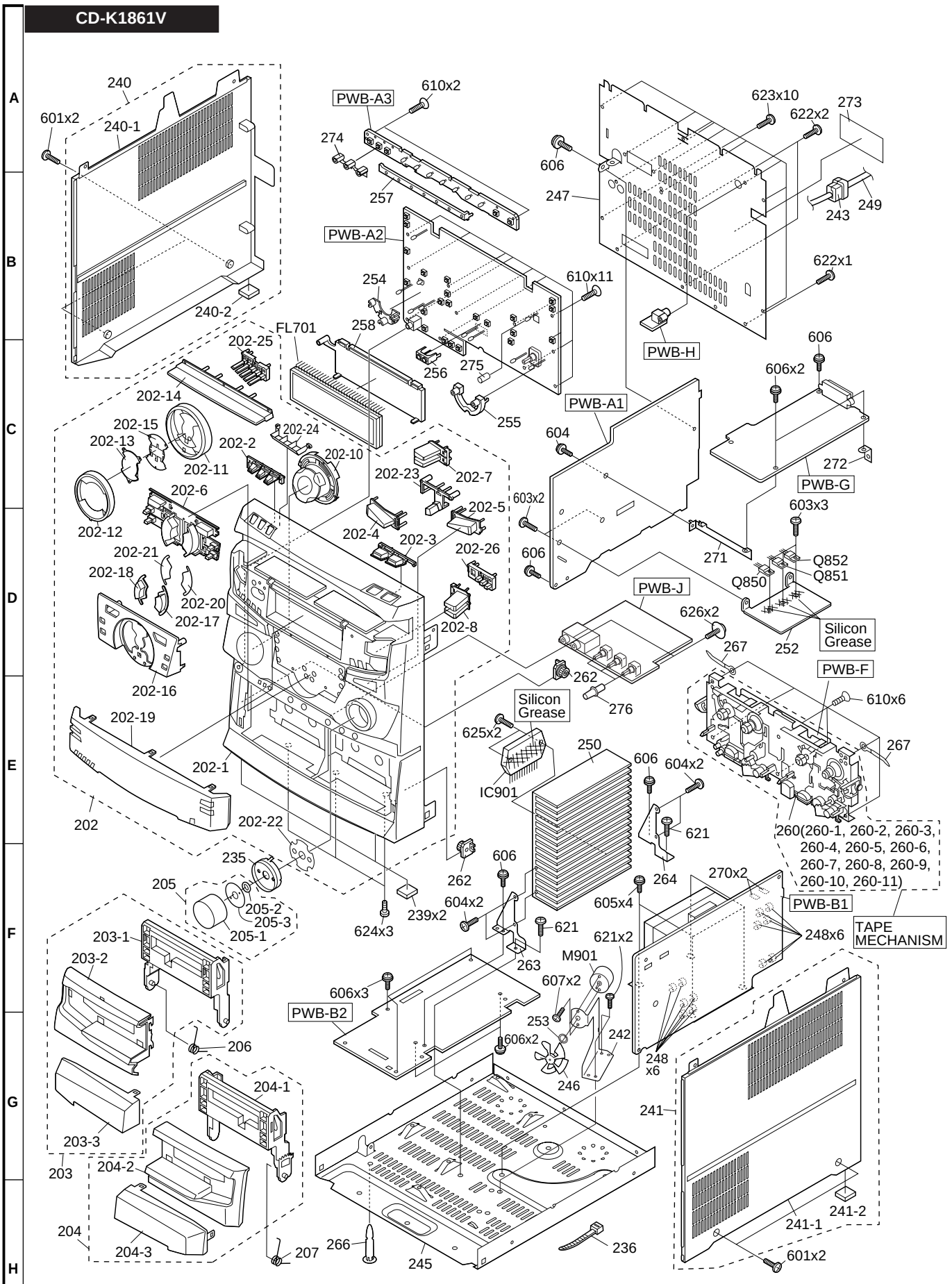


Figure 9 CD MECHANISM EXPLODED VIEW



Note: Only the unit and consumale parts are supplied as aprts supply for the Tape mechanism.

Figure 10 CABINET EXPLODED VIEW (1/2)

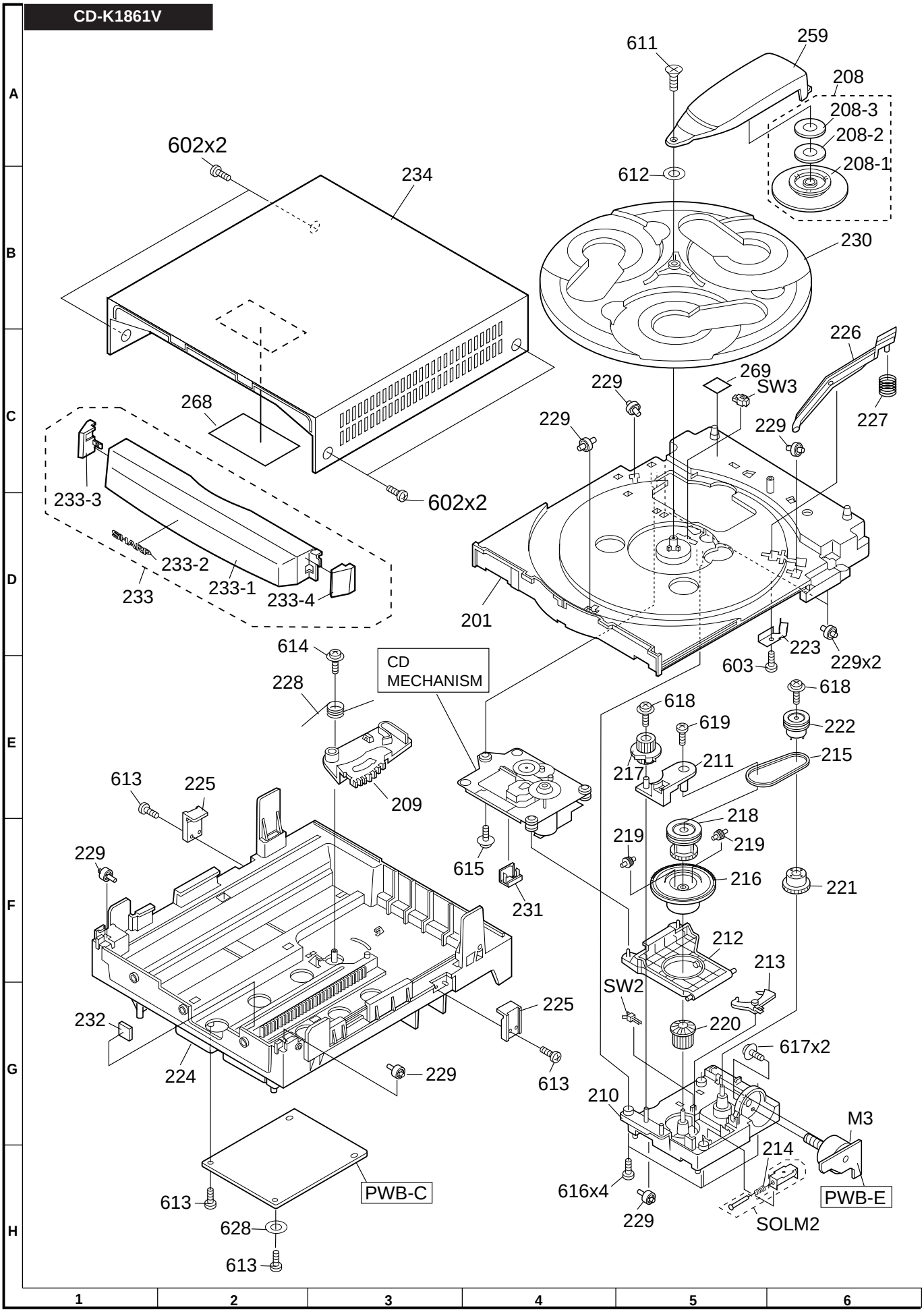


Figure 11 CABINET EXPLODED VIEW (2/2)

CP-C861

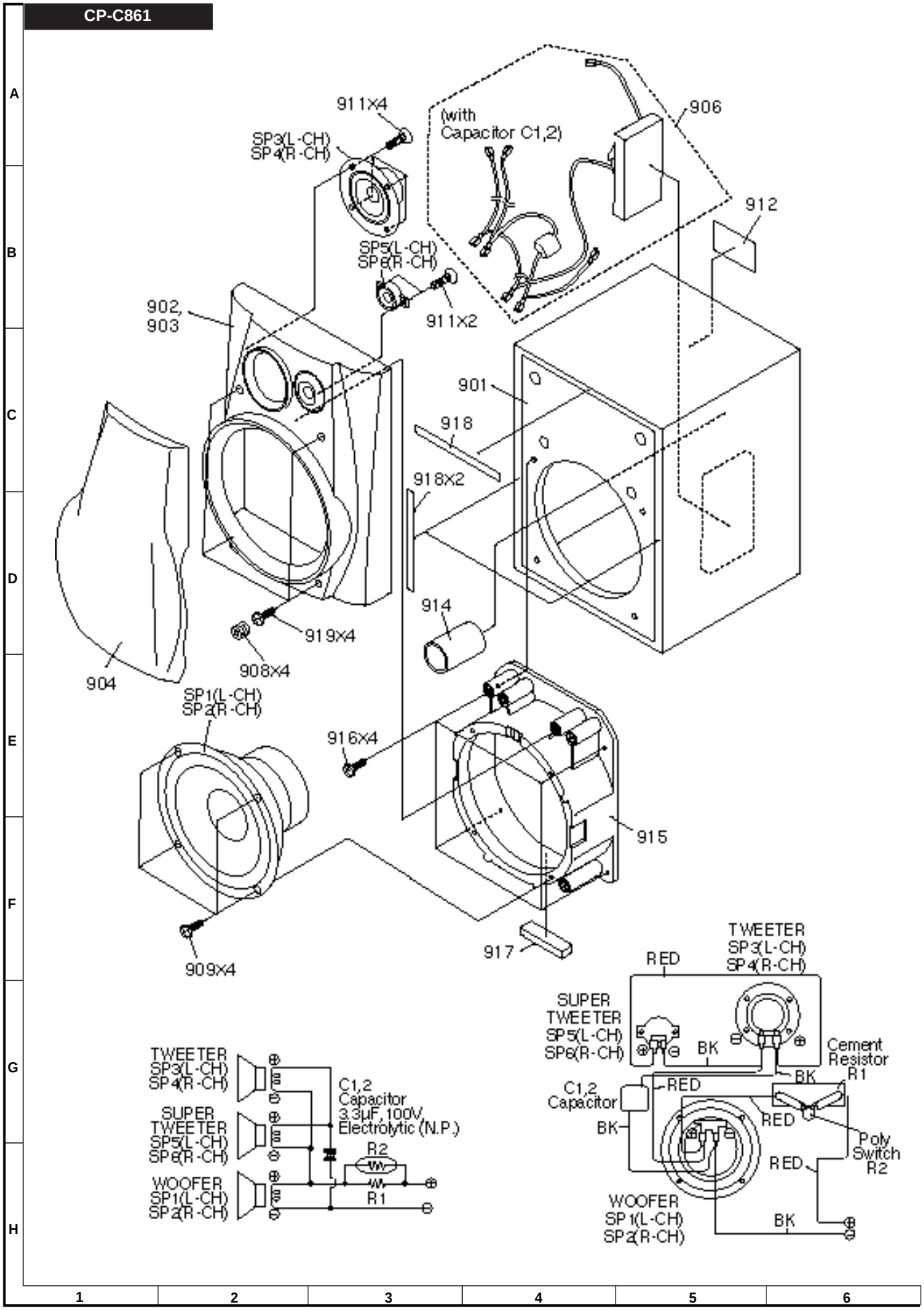


Figure 12 SPEAKER EXPLODED VIEW

— M E M O —

— M E M O —

CD-K1861V

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